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QUEEN'S UNIVERSITY

KINGSTON, CANADA



INCORPORATED BY ROYAL CHARTER IN 1841

CALENDAR OF THE FACULTY OF ARTS

ONE HUNDRED AND THIRD SESSION
SESSION 1943-44

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/44

This Calendar is published some months before the opening of the session. Staff, courses, and regulations will probably be as announced, but the University reserves the right to make changes.

Queen's University
Library

KINGSTON, ONTARIO

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KINGSTON, CANADA



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PRINTED FOR THE UNIVERSITY BY THE JACKSON PRESS
KINGSTON
1943

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THE ACADEMIC YEAR*

THE HUNDRED AND THIRD SESSION of the university will begin on Wednesday, September 29th, 1943, at 8 a.m. Convocation will be held on Saturday, May 20th, 1944 (this date is provisional).

1943

May 1—Written notice due at the Registrar's Office of candidates' intention to compete for Provincial Scholarships and Ontario Matriculation Scholarships.

July 5—Registration for Summer School. Registrations will not be accepted after July 6 except when special arrangements have been made *before that date*, and on these late registrations an additional fee of \$3 will be charged.

July 6—Summer School opens at 8 a.m.

July 15—Last day for receiving applications, accompanied by fees, for September examinations, or degrees, from intramural and extramural students.

Aug. 20—Summer School closes at 5 p.m.

Aug. 30—Arts supplemental examinations begin.

Sept. 1—Last day for receiving applications for the Robert Bruce Bursaries.

Sept. 10—Last day for registration of extramural students without extra fee.

Sept. 17—Last day for registration of extramural students with extra fee of \$3.

Sept. 27—Registration in Arts begins at 2 p.m. for students who are registering for the first time. Such students must submit certificates of vaccination.

Sept. 28—Last day for registration of students registering for the first time. A late fee will be charged after this date (\$3 on September 29 and \$1 a day thereafter).

*The term "Academic Year" used in connection with regulations and Courses of study refers to the period extending from October 1 to September 30.

Sept. 29—Registration of intramural students who have been registered in previous sessions (one day only). A late fee will be charged after this date (\$3 on September 30 and \$1 a day thereafter).

Sept. 30—Classes in Arts open at 8 a.m.

Oct. 9—Last day for registration of intramural students who have not previously obtained permission to register later.

Oct. 16—University Day.

Nov. 10—Last day for receiving applications and fees from extramural students for January examinations.

Dec. 1—First day upon which extramural students may transfer to intramural classes.

Mid-year examinations, to be announced.

Dec. 22—Christmas holidays begin at noon.

1944

Jan. 4—Examinations in half-courses of the first term begin at 2 p.m.

Jan. 4—Classes in whole courses reopen at 8 a.m.

Jan. 6—Classes in half-courses of the second term begin at 8 a.m.
Last day for payment of second instalment of fees without penalty.

Jan. 15—Last day for receiving applications from candidates for the M. C. Cameron Scholarship in Gaelic.

Feb. 15—Last day for receiving applications and fees from extramural students for the April examinations and for degrees.

Mar. 15—Last day for receiving applications and fees for degrees from intramural students.

April 1—Last day for receiving manuscripts for university prizes, applications for Arts Research Fellowships, Leonard Fellowships, and Khaki University and other Scholarships.

April 6—Class work closes at five o'clock.

April 7—Good Friday.

April 10—Last day for extramural students to register for the summer session without extra fee.

April 15—Examinations begin.

April 17—Last day for extramural students to add classes for the summer session with extra fee.

May 20—Convocation for conferring degrees, announcing honours, and distributing prizes and medals. (This date is provisional.)

CALENDAR

1943

JANUARY							FEBRUARY							MARCH							APRIL								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
.....	1	2	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3
3	4	5	6	7	8	9	7	8	9	10	11	12	13	14	7	8	9	10	11	12	13	4	5	6	7	8	9	10	
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20	11	12	13	14	15	16	17		
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27	18	19	20	21	22	23	24		
24	25	26	27	28	29	30	28	.....	.....	.....	.....	.....	.....	28	29	30	31	.....	.....	.....	25	26	27	28	29	30	31
31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MAY							JUNE							JULY							AUGUST								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
.....	.....	.....	.....	.....	.....	1	2	.....	1	2	3	4	5	.....	.....	1	2	3	1	2	3	4	5	6	7	8	9
2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14		
9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21		
16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28		
23	24	25	26	27	28	29	27	28	29	30	.....	.....	.....	25	26	27	28	29	30	31	29	30	31	.....	.....	.....	.....
30	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
.....	.....	.....	.....	.....	.....	1	2	3	4	.....	.....	1	2	.....	1	2	3	4	5	6	.....	.....	1	2	3	4	
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11		
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18		
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25		
26	27	28	29	30	.....	.....	24	25	26	27	28	29	30	28	29	30	.....	.....	.....	.....	26	27	28	29	30	31	31

1944

JANUARY							FEBRUARY							MARCH							APRIL								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
.....	.....	.....	.....	.....	.....	1	.....	1	2	3	4	5	.....	.....	1	2	3	4	.....	.....	.....	.....	.....	.....	.....	1	
2	3	4	5	6	7	8	6	7	8	9	10	11	12	5	6	7	8	9	10	11	2	3	4	5	6	7	8		
9	10	11	12	13	14	15	13	14	15	16	17	18	19	12	13	14	15	16	17	18	9	10	11	12	13	14	15		
16	17	18	19	20	21	22	20	21	22	23	24	25	26	19	20	21	22	23	24	25	16	17	18	19	20	21	22		
23	24	25	26	27	28	29	27	28	29	.....	.....	.....	.....	26	27	28	29	30	31	.....	23	24	25	26	27	28	29
30	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MAY							JUNE							JULY							AUGUST								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
.....	1	2	3	4	5	6	1	2	3	1	1	2	3	4	5	1	2	3	4	5
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12		
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19		
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26		
28	29	30	31	.....	.....	.....	25	26	27	28	29	30	.....	23	24	25	26	27	28	29	27	28	29	30	31	.....	.....
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
.....	.....	.....	.....	.....	.....	1	2	1	2	3	4	5	6	7	.....	.....	1	2	3	4	.....	.....	.....	.....	.....	1	2
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9		
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16		
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23		
24	25	26	27	28	29	30	29	30	31	.....	.....	.....	.....	26	27	28	29	30	.....	24	25	26	27	28	29	30	31

TIME-TABLE OF LECTURES, 1943-44

	8 M.W.F.	9 M.W.F.	10 M.W.F.	11 M.W.	8 T.T.S.	9 T.T.S.	10 T.T.S.	11 T.T.S.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
<u>Bacteriology</u>												
<u>Biochemistry</u>												
<u>Biology</u>	12, M.W.				16, M.F.							
<u>Chemistry</u>					21, T.T.	10, T.T.	16, T.T.	18, T.T.				
<u>Classical Lit.</u>	Com. 60				19, T.T.	46			18			
<u>Economics, Commerce and Politics</u>	Com. 63	Eco. 28b Pol. 37	Pol. 2 Eco. 21 Eco. 11a	Corn. 54 Pol. 34	12, W.F. 21b, W.F.	13, T.T. 25, Tu.	14, T.T. 25, Tu.	15, T.T. 24, T.T.	17, T.T. 22, T.T.			
<u>English</u>		2(A, B)			1(A), 2(C) 18	3a, 3b 4, 22	1(B), 20	10	16b, 19a			
<u>French</u>	11	2(A), 3			1(A), 10, 20a 20b	1(M.W.) 16, M. 113, M.W.	1(B, C)	2(B), 4	12, 21a			
<u>Geology</u>	15, W.	11, W.F. 116a, M.	14a, W.F.				13, T.T.	10b, T.T.	15, Tu. 115, Tu. F.	17, M. 1-5		
<u>German</u>	10	2			1			A, 20				
<u>Greek</u>		26			1			18a, 21b A, 10				
<u>Hebrew</u>					1							
<u>History</u>	16, 17	13			3, 27 14a, 15b		9, 18a 19b	20	1			
<u>Latin</u>		1							11	2		
<u>Mathematics</u>	12a, 15b	Hon. Group B	3a, 7b	10a, 11b	2	14a, 16b	Ast. 1, Hon. Group B		1			
<u>Mineralogy</u>	1, F (1st and 2nd term)			10a, M.F. 11b, M. (2nd term)	12, W. 10b, F.	11, Tu. Th. (1st term)		1, Tu. (2nd term)				
<u>Philosophy</u>			1		2, 3, 22			12, T.T.				
<u>Physics</u>					10				18	1, 12	4	15, F. 1-3 W. 1-4
<u>Religious Knowledge</u>												
<u>Spanish</u>	A, 1									A, 10	2, 6	

Art 2 Lecture period: Monday and Thursday, 4-5. Studio period: Tuesday, 2-4.

Music 1 Monday, Wednesday, and Friday at 4.30.

Music 2 Lecture periods: Monday and Wednesday at 2. Composition period: Thursday at 4.

TIME-TABLE OF LABORATORY WORK

The numbers in parenthesis indicate the hours.

	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
Bacteriology	10 (4-6)				10 (1-3)	
Biochemistry	16 (1-4)			18 (2-4)	18 (2-4)	
	1 (Sec. A, 1-3)	10 (1-4)	1 (Sec. B, 1-3)	12 (1-4)	18 (2-5)	
Biology	16 (1-4)	19 (1-4)				
	12 (1-4)	3 (1-5)	12 (1-4)	1 (1-3)	10 (1-4)	12 (9-12)
	17 (1-4)	14 (1-4)	22 (1-4)	2 (1-4)	24 (1-4)	22 (9-12)
Chemistry	22 (1-4)	15a (1-4)	24 (1-4)	13 (1-4)		
	15a (1-4)	24 (1-4)	25 (1-4)	12 (1-4)		
	24 (1-4)		22 (1-4)			
	11 (2-4)	115 (1-4)	1 (Sec. A, 1-3)	1 (Sec. B, 1-3)	115 (1-4)	
	17 (1-5)	10b (1-3)				
Geology	13 (2-4)	14a (2-4)				
	113 (1-4)					
	1, first term (1-3) or (3-5)	1, second term (1-3) or (3-5)	11 (1-3)	14a (1-4)	12 (1-3)	10a (10-12)
Mineralogy		10a (1-3)				10b (10-12)
	1 (1-3) or (3-5)	1 (1-3)	11 (1-3)	2 (3-5)		
Physics		10b (3-5)	11 (1-3)	14a (1-3)		
	12a (3-5)		13b (1-3)	13b (1-3)		
			17b (2-4)	17b (2-4)		

HISTORY OF THE UNIVERSITY

Queen's University owes its origin to the desire of the Synod of the Presbyterian Church in Canada, in connection with the Church of Scotland, for a ministry trained within the country. As early as 1832 the Provincial Government had been petitioned "to endow without delay an institution, or professorships, for the education and training of young men for the ministry in connection with the Synod." This and other representations failing of their object, steps were taken by the Synod to found a college at Kingston on the lines of the Scottish National Universities. On October 16, 1841, a Royal Charter was issued by Her Majesty Queen Victoria for the establishment of Queen's College, Kingston, and the first classes were opened in March, 1842, with the Rev. Dr. Liddell as Principal. Funds were provided in part by grants from the Presbyterian Church in Scotland and from the Canadian Government, and in part by liberal subscriptions from the friends of the young and growing University. In 1867-68, however, the withdrawal of the Provincial grant, and the failure of the Commercial Bank, almost brought financial disaster. But the crisis was met by the determination of Principal Snodgrass and other self-denying workers, chief among whom was Professor Mackerras. The country was canvassed for subscriptions, and as a result of the widespread interest aroused, \$113,000 was added to the endowment.

In 1877 Principal Snodgrass was succeeded by the Rev. G. M. Grant, who for a quarter of a century built with brilliant success upon the foundation laid by his predecessors. Under him the University gained rapidly in size and prestige. By 1881 Queen's had a new building, an enlarged staff, and a great increase of students. In 1887, as the result of an effort in commemoration of the Queen's Jubilee, \$250,000 was raised, resulting in further extension, and in the establishment of new professorships.

Principal Grant died in 1902, and was succeeded in the following year by the Very Rev. D. M. Gordon. In 1916, owing to ill-health, Principal Gordon resigned his position, but continued in office until the autumn of 1917, when the Rev. R. Bruce Taylor was appointed as his successor. In 1930 Principal Taylor resigned his position to live abroad and Dr. J. C. Connell was appointed Acting Principal. He held this position for four months, until October, when W. Hamilton Fyfe, Headmaster of Christ's Hospital, England, and formerly Fellow of Merton College, Oxford, was installed as Principal of the University. Principal Fyfe resigned in 1936 to accept the Principalship of the University of Aberdeen. Dr. Fyfe was succeeded by Principal R. C. Wallace, President of the University of Alberta from 1928 to 1936.

In 1854 the Medical Faculty of Queen's was established. It was reorganized in 1866 as the Royal College of Physicians and Surgeons in affiliation with the University, but in 1891 the original status was resumed. Excellent facilities for clinical work are provided in the Kingston General Hospital, Hotel Dieu, and the Ontario Hospital.

Queen's led the way in co-education. As early as 1870 special classes in English and other subjects were formed for women, but Courses leading to a degree were not thrown open to them until 1878-79. In 1880 co-education was extended to the medical course, and in 1883 a separate Women's Medical College was opened and affiliated with Queen's. It was closed, however, in 1894, as similar facilities were offered in Toronto and elsewhere.

The School of Mining was founded in 1893 under an Ontario charter. For several sessions all its departments were housed in Carruthers Hall, which had been erected in 1891, but in view of the rapid growth of the School the Provincial Legislature in 1900 provided for its accommodation two large buildings, Ontario Hall for the Departments of Physics, Geology and Mineralogy, and Fleming Hall for the Departments of Civil, Mechanical, and Electrical Engineering. In 1911 the Provincial Government erected Gordon Hall, which is entirely used for the teaching of Chemistry, and, through the generosity of Professor Nicol and other graduates, Nicol Hall was built to provide class rooms and laboratories for the Department of Mining and Metallurgy. The School of Mining, which since 1893 had been under the control of a separate Board, was in 1916 amalgamated with the University, and now constitutes its Faculty of Applied Science.

In 1907 the Ontario Government established at Queen's a second Faculty of Education for the purpose of providing professional training for teachers in the secondary schools of the Province. In 1920, however, the work of the Faculty was discontinued because of the decision of the Government to extend the scope of the Normal Schools and to create in Toronto the Ontario College for Teachers.

There is now on the University Campus a stately group of buildings, comprising the Old Arts Building (now the Theological Building); Carruthers Hall (Civil Engineering); Kingston Hall (Arts), the gift of the city of Kingston; Grant Hall, erected by students, graduates and friends in honour of Principal Grant; Ontario Hall (Physics, Chemical Engineering); Fleming Hall (Mechanical and Electrical Engineering); Gordon Hall (Chemistry); Nicol Hall (Mining and Metallurgy); the Medical Building (Anatomy, Pharmacology and Preventive Medicine); the Medical Laboratories Building; the Gymnasium; Miller Hall (Geology and Mineralogy), named in memory of the late Dr. W. G. Miller; the Observatory; the Douglas Library, named in memory of Dr. James Douglas, a former chancellor of the University, who contributed \$150,000 to its cost; Ban Righ Hall, the residence for women erected through

the efforts of the Alumnae Association, and the Richardson Pathological Laboratory. The Province of Ontario, besides its generous gifts of Ontario, Fleming, and Gordon Halls, contributed \$150,000 to the Douglas Library and \$125,000 to the Central Heating and Power Plant. The City of Kingston, besides providing Kingston Hall, made a gift of \$150,000 for its reconstruction and fire-proofing in 1932. The Craine Building, named in honour of Dr. Agnes Douglas Craine who left a capital sum of \$375,000 for the teaching of Biochemistry, was opened in 1937.

Queen's University, though founded by a church, was dedicated to the nation. As its constituency expanded, its constitution was gradually broadened, until finally in 1912, as a result of an amicable arrangement between the Presbyterian Church and the Trustees of the University, an act was passed by the Dominion Parliament removing the last vestige of denominational control.

The endowment of the University is at present about \$4,000,000, and the annual income, derived from all sources, is over \$850,000. The registration of students has grown from 665 in 1900 to over 3,500 in the present session, and Queen's has become nation-wide in its work and influence.

GOVERNMENT AND ADMINISTRATION

The administration of the University is vested in the **Board of Trustees**, the University Council, the Senate, and the Faculty Boards.

THE BOARD OF TRUSTEES

The Board of Trustees consists of *ex-officio* and elective members. The former are the Chancellor, the Principal, and the Rector. The latter consist of (1) one representative from each affiliated college, (2) representatives as provided for by the Statutes from (a) the University Council, (b) the Benefactors, (c) the Graduates, and (3) members elected by the Board of Trustees.

The functions of the Board of Trustees are to manage the finances, to possess and care for the property, to procure legislation, to appoint instructors and other officers, and in general attend to such external matters as do not relate directly to instruction.

THE UNIVERSITY COUNCIL

The University Council consists of the Chancellor, the Trustees, the members of the Senate, and an equal number of members elected by the Graduates from their own members.

The annual meeting of the Council is held on the day immediately preceding the spring Convocation.

The Functions of the Council are:

(1) To elect the Chancellor, except when two or more candidates are nominated, in which case the election is by registered graduates.

(2) To elect six trustees, two of whom shall retire annually.

(3) To make by-laws governing the elections of (a) the Rector by the registered students, (b) seven trustees by the benefactors, (c) six trustees by the University Council, (d) six trustees by the graduates.

(4) To discuss all questions relating to the University and its welfare.

(5) To make representation of its views to the Senate or the Board of Trustees.

(6) To decide on proposals for affiliation.

(7) To arrange all matters pertaining to (a) its own meetings and business, (b) the meetings and proceedings of Convocation, (c) the installation of the Chancellor, (d) the fees for membership, registration and voting.

THE SENATE

The Senate consists of:

The Principal.

The Vice-Principal.

The Principal of Queen's Theological College.

The Dean of the Faculty of Arts.

The Dean of the Faculty of Applied Science.

The Dean of the Faculty of Medicine.

Three Professors elected by the Faculty of Arts.

Three Professors elected by the Faculty of Applied Science.

Three Professors elected by the Faculty of Medicine.

Two Professors elected by the Faculty of Queen's Theological College.

The Functions of the Senate are:

(1) To determine all matters of an academic character which concern the University as a whole.

(2) To consider and determine all courses of study leading to a degree, including conditions of Matriculation, on recommendation of the respective Faculty Boards; but the Senate shall not embody any changes without having previously presented these to the Faculty.

- (3) To recommend to the Board of Trustees the establishment of any additional Faculty, Department, Chair, or Course of Instruction in the University.
- (4) To be the medium of communication between the Alma Mater Society and the Governing Boards.
- (5) To determine all regulations regarding the social functions of the students within the University, and regarding the University Library and University Reading Rooms.
- (6) To publish the University Calendars.
- (7) To conduct Examinations.
- (8) To grant Degrees.
- (9) To award University Scholarships, Medals, and Prizes.
- (10) To enforce the Statutes, Rules, and Ordinances of the University.
- (11) And generally to make such recommendations to the Governing Boards as may be deemed expedient for promoting the interests of the University.

THE FACULTY BOARDS

The Faculty Boards are constituted as follows:

For the Faculty of Arts and for the Faculty of Applied Science the Dean, Professors, Associate Professors, Assistant Professors, and Lecturers of each Faculty (in Arts, after one year's experience) have power to meet as separate boards, and to administer the affairs of each Faculty under such regulations as the Board of Trustees may prescribe.

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PHYSICS: J. I. Lodge, D. H. Walker.

PHYSICAL TRAINING: Eileen V. Johnston, W. R. Lemmon, L. J. Morris.

III—INSTRUCTORS IN THE SCHOOL OF COMMERCE

W. A. MACKINTOSH, M.A., Ph.D., F.R.S.C.

Professor of Economics; Director of the School of Commerce and Administration (on leave of absence)

*C. E. WALKER, B.Sc.(Acc.), C.A.
Professor of Commerce

R. G. H. SMAILS, B.Sc.(Econ.), A.C.A.(Eng.)
Professor of Commerce

C. A. CURTIS, B.A., Ph.D.
Professor of Economics

F. A. KNOX, B.A.
Professor of Economics

J. A. CORRY, LL.B., B.C.L., LL.M.
The Hardy Professor of Political Science

J. L. McDougall, M.A.
Associate Professor of Commerce

J. C. CAMERON, M.Com.
Associate Professor of Commerce; Head of the Industrial Relations Section

L. G. MACPHERSON, B.A., C.A.
Lecturer in Accounting

C. H. CURTIS, M.A.
Lecturer in Economics

C. B. WADE, C.A.
Instructor in Chartered Accountancy

J. D. CAMPBELL, B.Com., C.A.
Instructor in Chartered Accountancy

*Deceased, December 1942.

OTHER OFFICERS

Librarian

E. C. KYTE

Curators of the Library

PRINCIPAL WALLACE,

PRINCIPAL KENT, VICE-PRINCIPAL MCNEILL, DEAN CLARK, DEAN MATHESON, DEAN ETHERINGTON, PROFESSORS JAMES MILLER, CORRY, J. K. ROBERTSON, SHAW, AND TROTTER

Curators of the Museum

THE PROFESSORS OF BIOLOGY AND GEOLOGY

Dean of Women

A. VIBERT DOUGLAS, M.B.E., M.Sc., Ph.D. (McGill)

Director of Endowment

GORDON J. SMITH, B.A., B.Sc. (Queen's)

Director, Department of University Extension

Director of the Summer School

*R. M. WINTER, M.A. (Queen's) (on Active Service)

Secretary of the General Alumni Association

Manager of the Employment Bureau

**H. J. HAMILTON, B.A. (Queen's) ((on Active Service)

GORDON J. SMITH, B.A., B.Sc. (Queen's) (Acting)

Medical Officer

J. T. TWEDDELL, M.D., C.M. (Queen's)

Superintendent of Buildings

JAMES BEWS

Secretary-Treasurer Athletic Board of Control

CHARLES HICKS

*Flight-Lieutenant, Royal Canadian Air Force.

**Office Manager, Wartime Bureau of Technical Personnel.

EQUIPMENT AND SPECIAL FEATURES

THE LIBRARY

The Douglas Library building provides one large reading room, three smaller ones, a number of conference rooms, exhibition rooms and offices for the library and administrative staff.

In the main reading room will be found a collection of some 5,000 volumes of general reference works on open shelves. The general library includes about 160,000 volumes as well as many original manuscripts and prints.

The system of classification used is that of the Library of Congress.

Seven hundred and fifty journals and other serials are currently received.

In addition to the general library there are departmental libraries for physics; chemistry; mining and metallurgy; geology and mineralogy; civil, mechanical and electrical engineering.

The library of the Medical Faculty, together with a biological library, is separately housed in the Old Arts building.

The Lorne Pierce Collection of Canadian Literature is very rich in first editions, original manuscripts and rare Canadiana.

The Shortt-Haydon Collection of portraits and views relating to Canada is one of the finest collections of its kind.

THE MUSEUMS

The Miller Memorial Museum, named in memory of the late Willet G. Miller, formerly Provincial Geologist of Ontario, has been erected for the Departments of Geology and Mineralogy. The main floor is entirely devoted to museum purposes and contains among other things an excellent collection of economic minerals used in industrial processes; a collection of at least a thousand mounted individual crystals; large collections illustrating the systematic classification of minerals and rocks; another illustrating the ores found particularly in Canadian mines, a stratigraphic assembly of rocks and a paleontological collection illustrating the geologic life record.

An Ethnological collection of weapons, utensils, dresses and ornaments is also housed in the east wing of the museum.

The Biological Museum, in the Old Arts Building, has a large Botanical collection illustrating fully the flora of North America, Europe, Asia, South Africa, and Australia; a Zoological collection representing the Canadian fauna by a large number of prepared specimens of mammals, birds, reptiles, fishes, insects, and mollusca.

THE LABORATORIES

The Biological Laboratories are on the main floor and in the basement of the Old Arts Building. There is a large laboratory for General Botany, one for General Zoology, and one for Medical Biology, as well as smaller laboratories for Plant Physiology and Advanced Botany. Laboratories are available also for research in Plant Physiology, Cytology, and the growth of populations. A very carefully arranged and classified collection of representative invertebrate animals as well as a small but growing entomological collection are available for study. These supplement the Herbarium and the collection of larger animals in the Museum.

The Chemical Laboratories are in Gordon Hall. On the fourth floor are the laboratories of Medical Organic, Biochemistry, and Water Analysis. On the third floor are two laboratories for General Chemistry, and a laboratory for Electro-chemistry and Colloid Chemistry. On the second or main floor are two laboratories for Quantitative Analysis, two for Organic Chemistry, and one for Industrial Chemistry. On the first or basement floor are three laboratories for Qualitative Analysis, and two for Physical Chemistry. Besides these there are a number of small separate laboratories for research work.

The Physical Laboratories occupy the major part of Ontario Hall. The basement contains the large elementary laboratory, the liquid air room, numerous research laboratories and the research workshop. The main floor is given over to undergraduate lecture and laboratory rooms. The second floor has two large lecture rooms, laboratory room for advanced undergraduate classes and for research. The attic is used for workshop and storage purposes.

The Psychological Laboratory is on the fourth floor of the Craine Building, and is equipped for both human and animal work. A small shop is available for the construction of apparatus. A large laboratory is used for elementary work and for undergraduate experiments, in addition to several smaller laboratory rooms for other research. Apparatus includes standard equipment for demonstration in general and comparative psychology.

The Geological and Mineralogical Laboratories are in Miller Hall. In the basement is a laboratory for the preparation of rock sections

and for photography and an X-ray laboratory equipped with a Hilger X-ray spectrograph. On the second floor a laboratory occupying the west wing is for elementary classes in Geology. Along the north side of the building is a map room and the petrographical laboratory. On the south side a large draughting room is used by senior students for the preparation of maps and sections required in field courses. On the third floor at the west end is a large laboratory for blowpipe analysis, a dark room equipped with a two circle goniometer, monochromator and Abbé refractometer. The east wing is a laboratory for postgraduate students, a dark room for photography, a chemical laboratory with space for twelve students, a grinding room for preparation of polished surfaces and an adjoining optical laboratory for petrographic and mineralographic work. Smaller laboratories for research work are equipped with a Hilger E316 spectrograph, a Hallimond Electromagnetic concentrator and facilities for examination of ores by polarized light.

THE OBSERVATORY

The Observatory has a transit room, a computing room, and an equatorial room with revolving dome. The equatorial telescope has a six-inch objective, declination and right ascension circles, and a driving clock. The transit has a three and a half inch objective. The further equipment consists chiefly of a striding level, a chronograph, a mean time clock, and a sidereal time clock.

THE MUSIC ROOM

The Music Room in the Douglas Library is ideally furnished and equipped for music study and listening. It houses the Carnegie collection of more than a thousand gramophone records, and a number of musical scores and books which are available on loan through the usual library facilities. The equipment also includes a Steinway grand piano-forte, a radio-phonograph, and a high-fidelity phonograph with separate loud-speaker console. The room is open every afternoon during the session, including Saturday and Sunday.

FACILITIES FOR FIELD WORK

Geology and Mineralogy. In the vicinity of Kingston a greater variety of economic minerals and metalliferous ores is mined than in any similar area in Canada. Through the kindness of the managers the various mines may be visited by the Geology and Mineralogy classes, and students may thus obtain valuable information concerning field conditions.

Botany and Zoology. Exceptionally good facilities for field study are provided in the vicinity of Kingston by the great diversity of land

surfaces and bodies of water. A wide range of plant and animal associations are within easy reach of the University.

FACILITIES FOR ATHLETICS

The University provides ample facilities for athletics. The gymnasium is one of the finest in Canada. In the University Grounds is a large covered skating rink with artificial ice. Adjoining the University is the football field, with the George Richardson Memorial Stadium given by Dr. James Richardson, formerly Chancellor of the University, in memory of his brother, Captain George Richardson, a Queen's graduate and a former athlete, who was killed in the Great War. There is room and equipment for all students who wish to take part in football, lacrosse, basketball, tennis, track athletics, swimming, boxing, fencing, or wrestling.

GENERAL INFORMATION

DEGREES

By the Royal Charter granted to Queen's College, it is "willed, ordained and granted, that the said College shall be deemed and taken to be an University, and that the students in the said College shall have liberty and faculty of taking the degree of Bachelor, Master, and Doctor in the several Arts and Faculties."

The degrees at present conferred under the statutes of the University are as follows:

I.—HONORARY DEGREES

Doctor of Divinity, D.D.; Doctor of Laws, LL.D.

II.—DEGREES BY EXAMINATION

1.—In Arts

Bachelor of Arts, B.A.; Bachelor of Commerce, B.Com.; Master of Arts, M.A.; Master of Commerce, M.Com.; Doctor of Philosophy, Ph.D.

Diploma in Laboratory Technique.

2.—In Theology

Bachelor of Divinity, B.D.

3.—In Medicine

Doctor of Medicine, M.D.; Master of Surgery, C.M.; Diploma of Public Health, D.P.H.; Master of Science, M.Sc.(Med.); Diploma in Medical Radiology.

4.—In Applied Science

Bachelor of Science, B.Sc.; Master of Science, M.Sc.

5.—School of Nursing

Bachelor of Nursing Science, B.N.Sc.

HOODS

Each Degree has its distinctive hood, as follows:

B.A.—Black, bordered with red silk.

B.Com.—Black, bordered with green silk.

M.A.—Black, lined with scarlet silk, bordered with scarlet silk.

M.Com.—Black, lined with green silk, bordered with green silk.

B.D.—White silk, bordered with crimson plush.

M.D. and C.M.—Scarlet silk, bordered with white silk.

M.Sc. (Med.)—Scarlet silk lined with white silk, bordered with white silk.

B.Sc.—Black, bordered with yellow (old gold) silk.

M.Sc.—Black, lined with yellow silk, bordered with yellow silk.

D.Sc.—Yellow silk, bordered with black.

D.D.—Purple silk, lined with white silk, bordered with white.

LL.D.—Black silk, lined with blue silk, bordered with blue.

Ph.D.—Black silk, lined with purple, bordered with white.

COUNCIL OF LEGAL EDUCATION OF GREAT BRITAIN

Queen's University has been approved by the Council of Legal Education of Great Britain and her degree examinations now qualify students for admission at any one of the four Inns of Court. Regulations for entry at any one of the Inns may be seen at the office of the Registrar.

THE STUDENTS' MEMORIAL UNION

The Students' Memorial Union was built to commemorate the service of the students and graduates of Queen's in the Great War.

Every male student is a member of the Union, which is really a club, where the men of all Faculties may meet in a University building designed for that particular purpose and privilege.

There are the usual club facilities, dining room, lounge, billiard room, reading room and committee rooms.

INFORMATION FOR WOMEN STUDENTS

The Dean of Women is ready to give women students information and advice regarding any matter pertaining to their life at the University. She should be notified immediately in case of illness.

The University Residences

Rooming and Boarding Houses

All first year women students under twenty-five and not resident in the city of Kingston are required to live in Ban Righ Hall or in one of its annexes; or if the accommodation is limited, they are required to live in an approved lodging house and board in Ban Righ Hall.

(For the purpose of this regulation students who have credit for

five or more classes at the University, taken either intramurally or extramurally, will not be considered as belonging to the first year.)

All other women students not resident in the city of Kingston are required to live either in one of the university residences or in an approved rooming or boarding house.

The above regulations apply to the winter session only. During the summer the university residences are open for the benefit of all women students attending the Summer School and of students taking physical culture and Upper School courses.

Particular attention is called to the regulation that women students are not permitted to lodge in houses in which any man other than the husband or son of the lodging-house keeper is living or lodging. It is suggested that Summer School students adhere to this regulation also.

Application forms for admission to the university residences, full information concerning the residences, the rates charged and rules in force, lists of approved rooming and boarding houses for the winter session, with information concerning the regulations governing them, and lists of recommended rooming and boarding houses for the Summer School can all be obtained from the office of the Dean of Women.

Academic Dress

During the winter session women students are expected to wear academic gowns at lectures. These gowns may be ordered in Kingston after the opening of the session or they may be made from patterns purchased through the Dean of Women's office.

Gymnasium Costume

The gymnasium costume worn by women students is a regulation white shirtwaist and yellow shorts. White Badminton shoes and socks are worn with the suit, which may be obtained on arrival.

Any bathing suit may be worn in the University swimming pool.

EXPENSES

At the present time the average cost of a student's board is from \$6.00 to \$6.50 a week, and for a room from \$3.00 to \$4.00 a week.

Lists of Boarding Houses for men students may be obtained from the Registrar. Meals may be obtained at the cafeteria in the Students' Union.

See FEES for other expenses.

PHYSICAL WELFARE OF STUDENTS

Every student is required upon registration to contribute \$4 towards a health insurance fund. In return the student has the free services of the University medical officer and a special hospital rate of fifty cents a day. Details of the plan are given in a printed leaflet which may be had on request.

All students in their first year are required to take physical training for two hours a week, unless excused on account of military training with the Officers' Training Corps. They are examined by the University physician, who prescribes proper exercises to correct any physical defects.

TUBERCULIN TESTS

Tuberculin tests will be given to all students entering Queen's University for the first time in September 1943. This service will be free of charge but those who react positively are expected to have an X-ray examination at their own expense.

VACCINATION

Every student registering for the first time must submit evidence of successful vaccination.

STUDENT SELF-GOVERNMENT

Queen's was the first University in Canada to introduce student self-government. All students are members of the Alma Mater Society, the chief instrument of student government, and are expected to share in its duties and responsibilities.

ALMA MATER SOCIETY LECTURE

In 1939, as a contribution from the student body to the Centenary Endowment Fund, the Alma Mater Society gave the University its accumulated reserve of \$1,711. The income will be used to provide an annual lecture to be known as the Alma Mater Society Lecture.

FRATERNITIES

By resolution of Senate no student registered with the University may form or become a member of any chapter of any externally-affiliated fraternity or sorority at or near Kingston.

University Naval Training Division

The University Naval Training Division, Queen's University, was organized in March 1943, under the direction of Lieutenant S. T. Hill, Commanding Officer H.M.C.S. "Cataraqui".

A minimum of 110 hours' training will be given during the academic year, and two weeks' spring training in H.M.C.S. "Cornwallis" or H.M.C.S. "Naden" at the end of the academic year.

Under-graduates in science or non-science courses will be enrolled as ratings on divisional strength. Students in mechanical, electrical engineering and engineering physics courses will be enrolled as Stokers II. Students in other university courses, except Medicine, will be enrolled as ordinary seamen. Students who fail to pass the medical examination for ordinary seamen may be considered for other rates still being recruited.

Canadian Officers' Training Corps

The Queen's University Contingent of the C.O.T.C., formed at the outbreak of the last war under Lieutenant-Colonel A. B. Cunningham, was organized as a Unit of the Militia in February, 1915. Reorganized after the war by Colonel A. Macphail, C.M.G., D.S.O., it is now commanded by Lieutenant-Colonel R. O. Earl, E.D.

Basic military training is provided for students in all faculties of the University

University Air Training Corps

The Royal Canadian Air Force has established a University Air Training Corps, with squadrons in the various Canadian universities and colleges. The Queen's University unit is known as No. 4 Squadron. In a two-year course, instruction is offered equivalent to that of an R.C.A.F. Initial Training School, comprising drill, mathematics, navigation, signals, airmanship, aircraft recognition, visits to service flying stations and familiarization flights. At the end of each academic session, U.A.T.C. airmen attend camp for two weeks at an R.C.A.F. station.

No. 4 (Queen's University) Squadron is under the command of Squadron Leader H. L. Tracy.

EMPLOYMENT SERVICE

An Employment Service has been in successful operation at the University for several years. It is under the jurisdiction of the Service Control Committee of the Engineering Society and administered by the Secretary of the General Alumni Association. It is financed by the Engineering Society and the University. The objects of the Service are to assist graduates in all Faculties to secure suitable positions, and to help students to obtain work during vacation periods.

Communications should be addressed: Manager, Employment Service, Queen's University.

REGISTRATION

All students are required at the beginning of each session to have their names entered upon the University Register.

Intramural students must register *in person*, paying full fees for the session. Those registering before the opening of the session will be charged the regular fee, but those registering on or after the first day of the session will be charged an extra fee of \$3. In addition, those who have not previously obtained permission to defer registration must pay a special late fee of \$1 a day from September 30 to October 9. No student may register after October 9 unless he has obtained special permission before the opening of session.

For Extramural registration see **REGULATIONS REGARDING EXTRAMURAL WORK.**

ADMISSION TO THE FACULTY OF ARTS

1. Candidates desiring to enter the Faculty of Arts should make application during the summer on forms supplied by the Registrar.

The application should be accompanied by matriculation or other certificates. These will be returned when the candidate's standing has been determined.

I—ADMISSION BY MATRICULATION

2. Matriculation examinations are conducted for the Universities of Ontario by the University Matriculation Board. Details regarding these examinations may be found in a separate publication entitled **ENTRANCE REQUIREMENTS**. This booklet contains also a list of the Entrance and Matriculation Scholarships and the conditions of award.

3. There are two grades of Matriculation, elementary and advanced, called respectively *Pass* (Secondary School Graduation Diploma) and *Honour* Matriculation (Grade XIII).

A. Pass Matriculation (Secondary School Graduation Diploma)

4. The subjects of Pass Matriculation are as follows:

English, History, Mathematics

Two of French, German, Greek, Latin, Spanish or Italian

One of Music, Science or Agriculture, a foreign language not already chosen from the preceding group.

The pass standard is fifty per cent. in each paper.

5. Candidates offering Pass Matriculation (Secondary School Graduation Diploma) for admission must have an average of sixty per cent. on the required papers. Such candidates will be admitted to the first year in Arts and may expect to graduate in four years if on a Pass Course, five years if working toward an Honours degree.

B. Honour Matriculation (Grade XIII)

6. Honour Matriculation (Grade XIII) examinations are held in the following subjects: *Latin, English, Modern History, Mathematics, (Algebra, Geometry, Trigonometry, and Problems), Greek, German, French, Spanish, Music, Physics, Chemistry, Biology.*

The pass standard is fifty per cent. in each paper.

7. Candidates presenting certificates covering four or five subjects of Honour Matriculation (Grade XIII) may be granted *pro tanto* credit in the corresponding courses of the first year, but not in more than five. Those presenting certificates in fewer than four subjects will be granted credit only in the subjects in which their standing is class I. Such candidates must have an average of 60 per cent. on the twelve papers of Pass Matriculation (Secondary School Graduation Diploma).

8. Mathematics 1 will be granted on any two of Algebra, Geometry, and Trigonometry of Honour Matriculation (Grade XIII). Students with standing in only two of these subjects, who wish to proceed to further work in Mathematics, must make up the third subject. They may do this by taking special tutorial classes offered by the Department of Mathematics. This tutorial work may be taken along with Mathematics 2.

9. Candidates with the First Class Interim Certificate who have successfully qualified for the Permanent First Class Certificate by attending a second year at an Ontario Normal School will be allowed towards an Arts degree a second year course in each of English and History.

10. Candidates with Honour Matriculation (Grade XIII) in five subjects may expect to graduate in three years if on a Pass Course.

11. No allowance will be given for credits on Honour Matriculation (Grade XIII) or similar non-academic examinations if such credits are earned subsequent to a candidate's first registration at Queen's University.

12. Candidates preparing for admission to a Course for B.A. with Honours will receive the same allowance in first year on Honour Matriculation (Grade XIII) standing as if they were on a Pass Course, since the Honours work does not begin in first year. "First Year" here means one year following Pass Matriculation on the five-year Course for the Honours B.A. degree.

13. Candidates for admission to Honours Courses who are taking Honour Matriculation (Grade XIII) work should write on all the papers of the two subjects which will be the Major and Minor for the degree of B.A., and three others chosen from the six compulsory courses on the degree Course they wish to follow. Under every subject in the departmental regulations in this calendar will be found a complete outline of the courses for degree if that subject is to be the Major and under clause (d) will be found the compulsory classes for that particular Course.

II—ADMISSION BY EQUIVALENT EXAMINATION

A. Examinations Equivalent to the Secondary School Graduation Diploma

The following certificates recognized as equivalent to the Ontario Secondary School Graduation Diploma may be accepted in so far as they meet the admission requirements of Queen's University:

Alberta	Junior Matriculation (Grade XI).
British Columbia	Junior Matriculation (Grade XII).
Manitoba	Grade XI.
New Brunswick	Junior Matriculation.
Newfoundland	Associate (Junior).
Nova Scotia	Grade XI (average 60, minimum 50).
Ontario	Ontario Secondary School Graduation Diploma.
Prince Edward Island	First Class License or Second Year Certificate from Prince of Wales College.
Quebec	The Quebec High School Leaving. McGill Junior Matriculation.
Saskatchewan	Grade XI.

B. Examinations Equivalent to Grade XIII

The following certificates are recognized as equivalent to the Ontario Grade XIII certificate in the subjects in which at least 50% has been made in each paper.

Alberta	Senior Matriculation (Grade XII).
British Columbia	Senior Matriculation (Grade XIII).
Manitoba	First Class.
New Brunswick	Grammar School or First Class Licenses.
Newfoundland	Associate (Senior Grade).
Nova Scotia	Grade XII.
Ontario	Grade XIII.
Prince Edward Island	Honour Diploma of Third Year, Prince of Wales College.
Quebec	McGill Senior Matriculation. Senior High School Leaving Certificate.
Saskatchewan	Grade XII.

Great Britain The School Certificate of the various English Universities and the Central Welsh Board; the candidate will be granted Grade XIII standing in those subjects in which he has obtained "credit". Similar standing will be given those having the Leaving Certificate of the Scottish Education Department provided that the subjects are of the Higher Standard.

III—ADMISSION TO ADVANCED STANDING

17. Students applying for admission to advanced standing with allowance on credits at another University must have an official certificate of standing with a statement of honourable dismissal forwarded to the Registrar for consideration. They will be given equivalent standing but must comply with all regulations of Queen's University governing the Course they wish to complete.

No credits obtained at another institution will be accepted for any of the last five classes offered by a candidate for degree at Queen's.

IV—ADMISSION BY SPECIAL REGULATION

18. Unmatriculated students who present certificates showing that they are over the age of twenty-one years may be admitted conditioned in the subjects of Matriculation if they satisfy the Board of Studies that they can profitably undertake University work.

Candidates admitted under this regulation may remove entrance conditions by obtaining credit in course 1 of the subject in which they lack Matriculation; they may remove conditions in languages by passing a preparatory course in the language concerned, e.g. German A, Spanish A, but they should note that an A course, if used to remove an entrance condition, may not be counted as a credit towards a degree.

REGULATIONS REGARDING EXTRAMURAL WORK

All inquiries regarding regulations should be addressed to the Registrar.

In order to meet the needs of students who are unable to do all their work in residence, of teachers in actual service who wish to improve their professional qualifications in certain subjects, and of those persons in general who, though unable to attend the regular classes, are yet

desirous of studying under competent direction, the University conducts a system of extramural instruction. This work is as nearly as possible identical with that taken up by the intramural students and the same examinations are set for all. Candidates who fulfil the requirements of residence and otherwise comply with the conditions stated below may qualify for the various degrees to which their Courses lead.

For details of the work offered for the summer of 1943 and winter 1943-44 see page 49.

Conditions of Admission to Extramural Work

1. Extramural students are of two types—special and regular.

(a) *Special* students are those who do not wish to proceed towards a degree. They may register for any classes in which they are particularly interested but must conform to regulations regarding date of registration, fees and regularity of work.

Special students are subject to all the regulations affecting regular students (see page 75, section 2).

(b) *Regular* students are those who are taking work towards a degree.

2. As in the case of intramural students, the requirement for admission to the courses of study leading to the degree of Bachelor of Arts or Bachelor of Commerce is complete Junior Matriculation (Ontario Secondary School Graduation Diploma) with an average of sixty per cent. on the required papers.

Unmatriculated students who present certificates showing that they are over the age of twenty-one years may be admitted conditioned in the subjects of Matriculation if they satisfy the Board of Studies that they can profitably undertake University work. Candidates admitted under this regulation may remove entrance conditions by obtaining credit under course 1 of the subject in which they lack Matriculation; they may remove conditions in language by passing a preparatory course in the language concerned, e.g., German A, Spanish A, but they should note that an A course if used to remove an entrance condition, may not be counted as a credit towards a degree.

3. Except with the permission of the Board of Studies no one is permitted to register at Queen's University in the same year as he is taking work from another educational institution, or writing on any examination other than Junior Matriculation. No allowance will be given for credits on Senior Matriculation (Grade XIII) or similar examinations if such credits are earned subsequent to the candidate's first registration at Queen's University. No credits obtained at another

institution will be accepted for any of the last five classes offered by a candidate for a degree at Queen's University.

4. Ordinarily intramural students may become extramural students only by special permission of the Faculty, but for the duration of the war the Faculty of Arts has provided for acceleration of Courses of intramural students as follows:

(a) Students who lack only three courses for degree may take these courses during the summer by extramural or by extramural and Summer School work provided that the courses are offered.

(b) Other students may take as many as two courses during the summer.

This ruling is not for the purpose of lessening the normal weight of work during session 1943-44, but to make it possible for students to graduate at an earlier date. For instance, students who have already completed ten courses may graduate in the fall of 1944 rather than the spring of 1945 by taking

- (1) two courses during the summer of 1943;
- (2) five courses during the winter of 1943-44;
- (3) three courses during the summer of 1944.

(c) Students who fail in one or two courses on the April examinations must include supplementals in these courses as part of the programme permitted under (a) or (b).

Registration in Extramural Courses

5. Application for registration must be made on forms supplied by the Registrar, and must satisfy the conditions stated in section 6. They must reach the University by the dates mentioned in section 7; and they must be accompanied by the fees specified in section 8.

6. (a) Extramural students may not register for more than four courses in the academic year. They may register in the winter (September-April) for as many as two courses or four half-courses, and in the summer* (April-September) for two courses or three half-courses.

(b) The courses selected in each year are subject to the approval of the Board of Studies and, in the case of candidates for degrees, must conform to the regulations for concentration, distribution, and sequence of work.

*The Calendar is issued in the spring but is not in force until the following autumn. The work of advanced whole courses given at the Summer School, will be based on the prescription in the calendar for the next session, since these courses must be completed during the following winter.

(c) Before registering students should consult the time-table of lectures, as they may not register for either winter or summer work in two classes which meet at the same hour. The summer time-table is given in the Announcement of Summer School and Extramural Work.

7. (a) Extramural students should register two or three weeks before the session opens in order that they may receive the preliminary instructions and provide themselves with books in time to start work promptly. They will be allowed to register up to September 10 for the winter or April 10 for the summer at the regular fee, and up to September 17 or April 17 on payment of an extra fee of \$3. Only under exceptional circumstances and by special permission of the Faculty will registration be accepted after these dates.

(b) Extramural students do not receive the examination returns before the last date of registration but should send fees to the Registrar within the required dates, stating the classes in which they wish to register if successful in their examinations. Necessary changes may be made later.

8. The fees payable upon application for registration are as follows:—

Extramural and Summer School Fee

(a) This is a single inclusive fee covering registration by the specified date, use of library and laboratory (apart from refundable deposit), tuition whether given extramurally or in the Summer School or partly each way, and first examination (not supplemental) if taken within two years. For a student in Summer School the fee also includes health insurance, athletics, MacClement Scholarship contribution and membership in the Summer School Association.

\$30.00 for each whole course.
15.00 for each half course.

Entrance Fee

(b) Students registering for the first time are required to pay an entrance fee of \$5.00.

Pro Tanto

(c) Students wishing to have courses credited towards a degree on work done at other academic institutions, must pay a fee of \$5.00 for this *pro tanto* allowance at the time of their first registration.

Fees may be paid in two equal instalments, in which case an additional \$1 will be added to the first instalment. Students registering in September must pay the first instalment by September 10, the balance on or before December 1. Students registering in April must pay the first instalment by April 10, the balance on or before July 2.

Minimum Residence Requirements

The University does not undertake to make it possible for a student to get a degree by satisfying merely the minimum residence requirements given below, since in some subjects only a limited amount of instruction can be given extramurally or in the Summer School. In the Sciences, for example, all the laboratory work must be done at the University and a student specializing in these subjects may find it necessary to spend two or three years in residence.

9. Candidates for a degree must take at least nine courses in attendance at the University, either during regular winter sessions or at the Summer School. Candidates for an Honours degree must attend during at least one regular winter session. In most cases an Honours Course will require much more than this minimum time. Examinations must be passed after each session's work.

The Department of Education is willing to accept attendance at four sessions of the Summer School as covering attendance requirements for the Inspectors' Course.

Manner of Conducting Extramural Classes

(See also section 22)

10. The method of giving extramural instruction necessarily varies with the subject. Detailed information is contained in the instruction sheets provided from time to time. These specify the prescribed reading, assign exercises and essays to be written, and in some cases give the substance of intramural lectures. The first instalment of work is sent to students as soon as they register. The date of each essay or exercise coming in and of each criticism or fresh piece of work going out is recorded at the Registrar's Office. Each essay or exercise is examined and returned to the writer with criticisms and suggestions.

Students should address their work and all enquiries regarding their work to the Registrar, Queen's University, Kingston, Ontario.

Regularity of Work

11. All exercises must be sent in by the dates specified or they will be returned unmarked and without credit.

Transference from Extramural to Intramural Classes

12. Extramural students may become intramural students during the winter session at any time after December 1, *in those courses in which they have satisfactorily completed the work prescribed up to the date of transferring.* Fees already paid will be applied on intramural charges.

13. Students who transfer to intramural work before January may add enough half-courses to give them five classes in the second term,

if such half-courses are available and the prerequisite work has been done.

Library Facilities for Extramural Students

14. Extramural students are expected to buy all text-books prescribed. They should also make generous provision for the purchase of other books bearing on their work, as the Library cannot undertake to provide enough duplicates to serve all the needs of students not in residence.

15. Three books may be borrowed at one time, provided that no two relate to the same piece of work. Unless a special arrangement is made, a book may be kept only two weeks from the date on which it is received.

16. No fee is charged for the use of the Library but extramural students must send to the Librarian a deposit of \$2 for the use of one book, \$4 for two books, and \$5 for three, as insurance against loss. Books may be exchanged as often as the borrower wishes; and when all are returned the deposit will be repaid on request.

17. All communications concerning books and deposits must be addressed to The Librarian, Queen's University, Kingston, Ontario.

Regulations Regarding Examinations

Intramural and extramural examinations are the same in all subjects and are held at the same time. It is impossible, therefore, to modify the examination schedule to suit the personal convenience of students.

18. Examinations are held in January, April, and September, as follows:—

(a) Examinations in half-courses of the first term are held in January (see page 6).

(b) Examinations in all whole courses and in half-courses of the second term are held at the end of April. Examinations in Pass courses (numbered under 10) and in such Honours courses as may be offered in the summer, may be postponed till the autumn, but such postponement will lessen the amount of new work which may be completed in September.

(c) Ordinarily an extramural student may not write in September on more than two courses or three half-courses. He may, however, write on three courses, if examinations in one or more have been postponed from April.

19. Applications for examination in the particular subjects upon which a student proposes to write, accompanied by the proper fees, must reach the Registrar's office by November 15 for the January examinations, by February 15 for the April examinations, and by July 15 for the September examinations. The fees for supplemental examina-

tions are \$3 for each half course examination and \$6 for each whole course examination, with an additional charge of \$3 for late application if accepted.

20. *Candidates are charged a fine of \$2.00 if they fail to notify the Registrar, at least ten days before the beginning of examinations, that they do not intend to write on a subject for which they have applied.*

21. Students will not be admitted to examination in any subject in which they have not fulfilled the requirements as to date of registration (see section 7) and regularity of work (see section 11). Candidates are expected to send in all the essays and exercises at the dates specified, and the grade given on a particular course will be determined by the amount and quality of the work done. No candidate will be admitted to examination who has done less than seven-eighths of the prescribed work. The last of the written work should reach the University at least two weeks before examinations begin.

22. Students who in any session do not complete the required work in a course, must register again, pay all the fees and do all the exercises.

23. An extramural student who fails in a subject may write one supplemental without repeating the work of the course. This supplemental must be written at the next examination period and may not be postponed. Supplemental examinations are held in September in all pass courses and in the first course in Honours.

24. Students may postpone examinations in a given subject for two years from the date of the first registration in that subject provided they have completed seven-eighths of the required exercises and all the required essays. Students are warned that they postpone examinations at their own risk since no special papers will be set even though courses are discontinued or radically changed. *Students who postpone an examination for more than two years must repeat the tutorial work.*

25. Extramural students in any of the Modern Languages must satisfy the Department concerned as to their oral qualifications. When an oral examination is necessary, it must be taken at the University. Students attending the Summer School will be given an opportunity of completing the oral work in those languages in which courses are offered at the Summer School.

26. Practical examinations in Science must be taken at the University.

27. Examination centres have been established at most of the larger cities and towns throughout Canada and a list of such centres is sent to all extramural students a month in advance of the examinations. Consideration will be given to an application to establish a new

centre. Such application, accompanied by the special fee of \$10, must be made by November 15 for January examinations, by February 15 for April examinations, and by July 15 for September examinations.

Determination of Standing

28. See section 30 and 31 of GENERAL REGULATIONS on page 79.

Fees for Extramural Students

29. A full statement regarding fees may be found under FEES.

30. Extramural students who enter as intramural students during the winter session will have their extramural fees applied on intramural charges. (See section 12.)

31. *In no case will refunds be made.* In case of sickness, however, but under no other conditions, an application to have fees *carried over* will be considered if it is made within one month of registration and is accompanied by a doctor's certificate.

Text-books

32. Texts may be obtained from the Technical Supplies Store, Queen's University Grounds.

EXTRAMURAL AND SUMMER SCHOOL WORK

On the following page a Table shows all the courses offered through Extramural and Summer School instruction in the summer of 1943 and the winter of 1943-44.

An extramural student may take four courses in a year with not more than two at any one time, summer or winter.

Since the exact requirements for Honours in any subject have now been definitely fixed, it has been found possible to arrange a definite scheme for extramural and Summer School work, as follows:

In subjects other than the sciences extramural and Summer School offerings will together cover all courses numbered under 10 in any subject, and three Honours courses of which one will be given each year and the other two alternately. Under this plan a student may cover three Honours courses in addition to Pass classes in any subject.

EXTRAMURAL AND SUMMER SCHOOL WORK — SUMMER 1943, WINTER 1943-44

	Summer School compulsory	Summer Extra- mural: Summer School optional	Summer Extra- mural only	Summer School Comp. & Winter Extramural	Summer Extra- mural
Latin	1, 2			11	1, 2
Greek				A, 1, 2	A, 1, 2
Greek & Rom. Hist.				4	4
Classical Liter.				1	1
English	3, 10, 18			1	1, 2, 14a, 14b, 18, 20
French				3	1, 2
German				A, 1, 2	A, 1, 2, 10
Spanish				A, 1	A, 1, 2, 6, 10
Art	4				
Drama	1				
Music	1, 2				
History	13				
Economics				1	1, 3
Politics				4	4
Commerce				2	2
Philosophy	18, 24			36	36
Biology	1, 16			63	63
Chemistry	1				
Mathematics	10a, 11b, 12a, 15b				
Astronomy	1				
Physics	1, 2, 11, 14a, 16b				
Geography	1, 16b				

Pass courses in Greek and German and all Honours courses will be offered at Summer School only if a sufficient number of students register by April 10. Students registering in these classes will be notified regarding the Summer School as soon as possible after April 10.

THE SUMMER SCHOOL

The thirty-fourth session of the Summer School begins at 8 a.m. on Tuesday, July 6, 1943, and closes at 5 p.m. on Friday, August 20.

Students are expected to register on Monday, July 5. An extra fee of \$3 will be charged those registering after July 6.

Courses will be given in Latin, French, English, German, History, Philosophy, Economics, Politics, Commerce, Mathematics, Physics, Chemistry, Biology, Geography, Art, Drama and Music. At the Summer School it is possible to cover about half the work done in the corresponding courses of the winter session.

The libraries and laboratories are available for use as in the winter session.

Ban Righ, the women's residence, will be open during the summer and will accommodate one hundred and forty students. Applications for rooms should be sent as early as possible to the Dean of Women.

Purpose of the Summer School

The Summer School offers the advantages of university study to those who cannot attend the classes of the regular session.

It gives TEACHERS an opportunity to improve their scholarship in chosen lines of study, to observe methods of teaching, and to become acquainted with books and equipment not otherwise available.

It gives INTRAMURAL students who have lost standing through illness or other causes an opportunity of qualifying for the September supplemental examinations. Moreover, intramural students in their first or second years, who on account of ill health are unable to carry the required five courses, may, with the consent of the Board of Studies, take three or four courses in the winter and the rest extramurally in the summer, provided that they attend the Summer School.

It gives EXTRAMURAL students an opportunity to take the oral work required in the modern languages, to do in the laboratories the practical work required in the Science courses, and to satisfy the minimum residence requirements for the degree of B.A. (See section 9 under REGULATIONS REGARDING EXTRAMURAL WORK).

Admission

No examination is required for admission to the Summer School. The classes are open to all who desire to improve their scholarship or professional equipment. Candidates for a degree, however, must satisfy matriculation requirements before being admitted to the University work and examinations, and must register for summer work in April.

Furthermore, they must submit in May and June at least seven-eighths of the exercises and all the essays in those classes which require such work.

No student working for credit is allowed to register for more than two courses or three half-courses in the Summer School.

Examinations

No examinations are held in connection with the Summer School. Students desiring credit for their work should write at the regular University examinations in September. See sections 11, 18, 21, 22 under REGULATIONS REGARDING EXTRAMURAL WORK.

Fees

See FEES (below).

Further Information

The Announcement of the Summer School, containing full details concerning the work offered, is published each year in March, and is supplied on application.

All inquiries concerning the Summer School should be addressed to The Registrar, Queen's University, Kingston, Ontario.

FEES

Fees must be remitted by accepted cheque, postal order, or bank draft, payable to Queen's University. Cheques or bank drafts on any point where there is a branch of the Bank of Montreal will be received at par; all other cheques should have $\frac{1}{2}$ of 1%, minimum 15c, added to cover exchange, or drawn plus exchange.

INTRAMURAL

Fees are payable each year upon registration.

A student is not registered and may not attend classes until he has paid the required fees.

Sessional Fee—including Registration, Tuition, Laboratory,

Library, Examinations \$150 00

Student Interests—including Health Insurance, Union, Faculty

Societies, Alma Mater, Journal, and Athletics (the athletic

fee which is part of student interests gives admission to

all home games except playoffs) 23 00

Fees may be paid in two instalments, in which case an additional \$5 will be added to the first instalment. The first instalment and the laboratory deposit must be paid at the time of registration in September, the balance on or before January 6th, 1944. No student will be admitted to classes until the above conditions have been complied with, nor will he be permitted to continue the work of the second term until the fees have been paid in full.

GRADUATE FEES

Candidates for the degree of Master of Arts must pay

Sessional fee	\$110
Student Interests fee	23
Laboratory and Library fee	10
Laboratory deposit (payable by students taking laboratory work)	10

The fees specified below are payable as they are incurred.

Laboratory Deposit:

Deposit is required for all courses in Science (unused portion will be refunded at the close of the session):

Without Chemistry	5 00
With one course in Chemistry	10 00
With two or more courses in Chemistry	20 00

Special Charges:

Entrance fee (payable by students registering for the first time)	5 00
Pro tanto allowance on work done in another University	5 00

Late registration (see also note, page 5), minimum	3 00
Change of courses after registration	2 00

Special fee for students in Commerce, third and fourth years	15 00
Late application—for examination or graduation	3 00

Special examinations given at the University when a regular examination is missed:	
One examination	5 00
Two or more examinations	10 00

Examinations at outside centres:

Each whole course	6 00
Each half-course	3 00

Supplemental examinations:

Each whole course	6 00
Each half-course	3 00

Special students not paying full fees:

Each course taken	40 00
(Student interests and Laboratory charges as above)	

Graduation:

Bachelor of Arts (in Course)	10 00
Bachelor of Commerce	10 00

Master of Arts	20 00
Master of Commerce	20 00

Doctor of Philosophy	50 00
Doctor of Science	50 00

Extra fee for degree <i>in absentia</i>	10 00
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EXTRAMURAL

Extramural and Summer School Fee—(This is an inclusive fee covering Registration, Tutorial work, Summer School, Examinations (except supplementals), Library, Laboratory, Health Insurance, one dollar of the Summer School Association Fee, twenty-five cents for MacClement Prize)

Each whole course taken extramurally or by extra-
mural and Summer School work \$30 00
Each half course " " " " 15 00

Special charges

Entrance fee (payable by students registering for the first time)	5 00
Fee for <i>pro tanto</i> allowance on work done in another University	5 00
Laboratory deposit for Physics, Chemistry, Biology, Geography	5 00
Fee for late registration and examination	3 00
Change of work after registration	2 00
Registration fee (payable only by non-registered students applying for examinations in courses already passed)	10 00
Establishment of new examination centre	10 00

Fee for supplemental examinations

Each whole course	6 00
Each half course	3 00
Fee for late application	3 00

Graduation

The same fees as outlined on page 52, under *Graduation*.

Fees may be paid in two equal instalments, in which case an additional \$1 will be added to the first instalment. Students registering in September must pay the first instalment by September 10, the balance on or before December 1. Students registering in April must pay the first instalment by April 10, the balance on or before July 2.

SCHOLARSHIPS, PRIZES, AND MEDALS

I—MATRICULATION SCHOLARSHIPS

For a list of Matriculation Scholarships and the conditions of award see the publication entitled **SCHOLARSHIPS AND PRIZES**.

II—SCHOLARSHIPS IN ARTS

Scholarship awards will be governed by the following regulations:

1. Scholarships may be held only by students in the Faculty of Arts in attendance the year following the award.
2. Scholarships will not ordinarily be awarded to students who have obtained lower than first class standing.
3. A student may not hold more than \$300 in Faculty scholarship money in any one year.

LANGUAGE AND LITERATURE

DEPARTMENT OF CLASSICS

Frederica McCulloch Scholarships in Latin

Founded by the late Andrew McCulloch, M.A., of Thorold.

1. Value \$80: awarded to the student who has the highest standing on the April examination in Latin 1.
2. Value \$60: awarded to the student who has the second highest standing on the April examination in Latin 1.
3. Value \$80: awarded to the student who has the highest standing on the April examination in Latin 2.
4. Value \$60: awarded to the student who has the second highest standing on the April examination in Latin 2.
5. Value \$120: normally awarded at the end of the first year of Honours on the standing obtained thus far in Latin courses taken at the University.*

W. W. Near Scholarships in Classics

Founded by the late W. W. Near, Esq., of Toronto.

1. Value \$100: normally awarded at the end of the second year of Honours, chiefly on the standing obtained in courses of the Department of Classics. When candidates are of nearly equal merit, some preference will be given those who are taking Greek.*
2. Value \$50: awarded to the student who has the highest standing on the April examination in Greek and Roman History 4.
3. Value \$50: awarded to the student who has the highest standing on the April examination in Classical Literature 1.

Maclellan Scholarship in Greek

Founded by the late Hon. James Maclellan, LL.D., of Toronto.

Value \$20. Awarded to the student who has the highest standing on the April examination in Greek 1.

The Flossie May Bogart Scholarship in Greek

Founded by the late Mrs. I. G. Bogart of Kingston in memory of Flossie May Bogart.

Value \$80. Awarded to the student who has the highest standing on the April examination in Greek 2.

*Note: These scholarships are intended to recognize outstanding promise in Honours work. If conditions warrant, they may be awarded at other stages than those prescribed here.

DEPARTMENT OF ENGLISH**Alexander Laird Scholarship in English 1**

Value \$40. Founded in memory of the late Rev. Alexander Laird by his brothers and sisters and awarded annually to the student who makes the highest marks in English 1.

The James Cappon Memorial Scholarship in English 2

Founded by Miss Alice L. Macnee of Kingston in memory of Dr. James Cappon, formerly Head of the Department of English and Dean of the Faculty of Arts.

Value \$40: awarded to the student making the highest standing in English 2, provided that the student proceeds to further work in English the following year.

James C. Rogers Prize in English 2

A prize of the value of \$5 in books. Given by James C. Rogers, B.A., '94, to the student obtaining the highest standing in English 2.

The prize money will be paid only when it is contributed.

Special Scholarship for Highest Standing in Extramural English 2

Value \$25. Given by a graduate to the extramural candidate for degree who makes the highest standing in English 2, provided that the candidate proceeds with University work the following year. This Scholarship will be paid in two equal instalments on or about October 15 and March 15.

Roberta McCulloch Scholarships in English

Founded by the late Andrew McCulloch, M.A., of Thorold.

1. Value \$30: awarded annually to the student standing second in English 1.

2. Value \$30: awarded annually to the student standing second in English 2 (intramural).

3. Value \$50: awarded annually to the student standing highest in Grade A, English 3.
4. Value \$50: awarded annually to the student standing highest in Grade A, English 4.
5. Value \$30: awarded annually to the Honours student standing second in English 2 and 10.
6. Value \$100: awarded annually to the Honours student in English standing highest in Grade A, in the final year examinations, provided that the student is proceeding to graduate work in Queen's University or another University.

McIver Scholarships

Founded by J. B. McIver, formerly Treasurer of Queen's University.

1. Value \$50: awarded to the Honours student having the highest standing in English 2 and 10.
2. Value \$75: awarded to the student having the highest standing in English at the end of the first session after admission to Honours.
3. Value \$75: awarded to the student having the highest standing in English at the end of the second session after admission to Honours.

The '01 Fellowship in English

Value \$80. Established by the class which graduated in 1901. Awarded to a student who will act as tutor in English during the following session.

McIlquham Foundation in English

Value \$20. Founded by the parents of Mr. J. Max McIlquham, a student at Queen's University, 1912-15, who was killed on service overseas. Awarded for the best original poem, short story, or play.

Competitive papers must be submitted to the Registrar by April 1.

Each paper must bear a motto instead of the author's name, and must have attached to it a sealed envelope, bearing the same motto and containing a signed declaration that it is his unaided composition.

All successful compositions shall be the property of the University, and shall be at the disposal of the Senate.

Arts '15 Scholarship

(The capital sum is not yet fully collected.)

Present value \$26. Founded as a memorial by the class of 1915. Awarded annually in turn by the Departments of English, Mathematics,

and History to the student with highest standing in two Honours courses taken in the third year. Awarded in English in 1944, in Mathematics in 1945, in History in 1946.

Wilhelmina Gordon Foundation in English

Established by the Imperial Order, Daughters of the Empire, in appreciation of the work of Professor Wilhelmina Gordon, who served as National Educational Secretary from 1923 to 1937.

Value \$25: awarded to the Honours student in English standing highest in Class I in the final year examinations, provided that the student is proceeding to graduate work at Queen's University.

DEPARTMENT OF FRENCH

W. W. Near Scholarships in French

Founded by the late W. W. Near, Esq., of Toronto.

1. Value \$100: awarded to the student who has the highest standing in French 2.

2. Value \$100: awarded to the student making the highest standing in the first year of Honours work.

The Ottawa B'nai B'rith Scholarship in French

Value \$100: awarded to the student making the highest standing in the second year of Honours work.

Sir Wilfrid Laurier Memorial Scholarship

Value \$80. Founded by the Ontario Women's Liberal Association to perpetuate the memory of Sir Wilfrid Laurier. Awarded for proficiency in French conversation. Candidates must be Canadian-born English-speaking students, sons or daughters of a British subject by birth or naturalization, not of French parentage. The examination will be held in March of each year.

See also the Edgar Forrester Scholarship in Oral French, \$20, page 73.

DEPARTMENT OF GERMAN

W. W. Near Scholarships in German

Founded by the late W. W. Near, Esq., of Toronto.

1. Value \$50. Awarded to the student who obtains the highest standing in German 2.

2. Value \$50. Awarded to the student who obtains the highest standing in German 10.

Susan Near Scholarship in German

Founded by the late Susan Near of Toronto.

Value \$50. Awarded to the student who obtains the highest standing in any full course, or two half courses, in Honours German other than German 10.

In any year in which one or more of these scholarships cannot be awarded under the foregoing conditions, the Department may make a special recommendation to the Faculty.

DEPARTMENT OF HEBREW**Mary Fraser McLennan Prize in Hebrew**

Value \$12. Founded in memory of Mary Fraser McLennan, of Lancaster, by her sons. Awarded to the student obtaining the highest standing in Hebrew 1, provided he intends to pursue a Theological Course in Queen's Theological College.

DEPARTMENT OF SPANISH**W. W. Near Scholarships in Spanish**

Founded by the late W. W. Near, Esq., of Toronto.

1. Value \$50: awarded to the student who has the highest standing in Spanish 1.

2. Value \$50: awarded to the student who has the highest standing in Spanish 10.

Susan Near Scholarship in Spanish

Founded by the late Susan Near of Toronto.

Value \$50: awarded to the student who has the highest standing in Spanish 2 provided that that standing is Class I.

HISTORY AND SOCIAL SCIENCE**DEPARTMENT OF HISTORY****Andrew Haydon Scholarship in Colonial History**

Value \$40. Founded by Senator Andrew Haydon, M.A., '93, LL.B. Awarded to the student with the highest standing in the Pass class in Canadian History (History 3).

Susan Near Scholarships in History

Founded by the late Susan Near of Toronto.

Two scholarships of the value of \$80 and \$70 respectively. Awarded to the students who, offering History as their Major subject, obtain the highest and the second highest standing in History at the end of the first session after admission to Honours.

Arts '09 Scholarship in History

Present value \$75. Founded by the class of 1909. Awarded annually to the Honours student in History with the highest standing in History courses taken in the penultimate year.

DEPARTMENT OF PHILOSOPHY**Susan Near Scholarship in Philosophy**

Founded by the late Susan Near of Toronto.

Value \$100: awarded to the student taking the highest standing in Philosophy 2 (Psychology).

Isaac Cohen Scholarship in Philosophy

Value \$100. This Scholarship will be awarded annually to a student in Philosophy on the results of the year's work in Philosophy 1.

DEPARTMENT OF POLITICAL AND ECONOMIC SCIENCE**W. M. O. Lochead Scholarship in Economics**

Value \$40. Founded by W. M. O. Lochead, M.A., '98, Kitchener, Ontario. The Scholarship will be awarded to the student taking the highest standing in the sessional examinations and classwork in Economics 4, provided he is in attendance in some faculty of the University during the following session.

Adam Shortt Scholarship in Political Science

Value \$40. Founded by G. W. Mason, Esq., K.C., in honour of Dr. Adam Shortt, formerly Professor of Economics. Awarded to the student taking the highest standing in Politics 2, provided he is in attendance during the following session and is registered in advanced work in the Department of Political and Economic Science.

Bryce M. Stewart Prize in Industrial Relations

Value \$20. Given for a period of three years by Bryce M. Stewart, M.A., Ph.D., Deputy Minister of Labour for the Dominion. A prize of the value of \$20 to be awarded each year for three years to the student making the highest standing in Economics 29b (Industrial Relations).

W. W. Near Scholarship in Political and Economic Science

Founded by the late W. W. Near, Esq., of Toronto.

Value \$200: awarded by recommendation of the Department on the basis of the first year's work in Honours in the Department (i.e., the first year after admission to Honours) to a candidate for Honours (Major) in Economics or Politics. The holder of the scholarship will

be paid \$100 in each of two succeeding years. The second payment may be withheld, on recommendation of the Department, if the holder's progress is not satisfactory.

Gowan Foundation No. I

Value \$20. Founded by the late Sir James R. Gowan, K.C.M.G. Awarded for the best essay written under examination conditions in February of each year, on one of a list of subjects prescribed by the Department of Political and Economic Science.

Gowan Foundation No. III

Value \$20 in books. Founded by the late Sir James R. Gowan, K.C.M.G. Awarded in Honours in Political Science.

Norris A. Brisco Prize in Commerce

Given by Norris A. Brisco of the Class of '98, Dean of the School of Retailing, New York University.

A prize of \$25 awarded annually to the student in Final Year Commerce and Administration who makes the highest standing on the graduation Thesis.

P. D. Ross Scholarship in Commerce

Value \$150. Given by P. D. Ross, LL.D., Ottawa. Awarded on the basis of the third year's work in the Commerce Courses, provided that the candidate is taking at least four full courses or their equivalent in the "Special Subjects" in Commerce and Administration and lacks not more than five other courses for graduation in Commerce. Tenable during the student's fourth year, if it is taken intramurally.

This scholarship will be given only when funds are available.

MATHEMATICS AND SCIENCE

DEPARTMENTS OF MATHEMATICS AND PHYSICS

N. F. Dupuis Scholarship in Mathematics

Value \$50. This is one of three scholarships founded by the graduates of the University in honour of the late Professor N. F. Dupuis on the completion of his forty-five years' service as Professor in the University. The scholarship is awarded to the student who takes the highest standing in Mathematics 1 in the April examinations.

E. D. Merkley Prize in Mathematics 2

A prize of the value of \$5 in books. Founded in memory of E. D. Merkley, B.A., a graduate of 1926. Awarded each year to the student obtaining the highest standing in Mathematics 2.

Susan Near Scholarships in Mathematics

Founded by the late Susan Near of Toronto.

Two Scholarships of the value of \$60 and \$40: awarded to the students with the highest and the second highest standing in Mathematics 2, 10a, 11b taken concurrently.

Two Scholarships of the value of \$60 and \$40: awarded to the students with the highest and the second highest standing in Mathematics 12a, 14a, 15b, 16b taken concurrently.

William Coombs Baker Memorial Prize

A prize of the value of about \$22 in books selected from a list approved by the Department of Physics. This prize has been founded by graduates in memory of William Coombs Baker, formerly the Robert Waddell Professor of Experimental Physics at Queen's University. Awarded annually to the student making the highest standing in Physics 11.

Day Scholarship in Physics and Mathematics

Value \$20. Founded in memory of the late Calvin Wellington Day, M.A., Lieutenant 2nd Battalion, C.E.F. Awarded to students proceeding to the Honours Course in Physics and Mathematics, the award to be based on examinations in Physics 2 and the Mathematics taken in the same year, provided that at least one full course in Mathematics other than Mathematics 1 is being taken.

Susan Near Scholarships in Physics

Founded by the late Susan Near of Toronto.

1. Value \$50: awarded to the student who has the highest standing in Physics 2 and 11 at the end of the session in which course 11 is completed. It is not necessary that Physics 2 should be taken concurrently with Physics 11.

2. Value \$75: awarded to the student who has the highest standing in Physics 14a and 13b taken concurrently.

3. Value \$75: awarded to the student who has the highest standing in Physics 12a and 10b taken concurrently.

DEPARTMENT OF BIOLOGY**W. W. Near Scholarship in Biology**

Founded by the late W. W. Near, Esq., of Toronto.

Value \$200: awarded by recommendation of the Department on the basis of the first year's work in Honours in the Department (i.e., the first year after admission to Honours) to a candidate for Honours

(Major) in Biology. The holder of this scholarship will be paid \$100 in each of two succeeding years. The second payment may be withheld, on recommendation of the Department, if the holder's progress is not satisfactory.

Gowan Foundation No. II

Value \$16. Founded by the late Sir James R. Gowan, K.C.M.G., for the best collection of Canadian Ferns and Fern Allies. In session 1943-44 only Fern Allies will be accepted. The plants must be good specimens, well pressed and mounted on herbarium sheets of the standard size. The collection must be delivered before December 15.

Ann Eliza Stafford Scholarship in Biology

Value \$40. This Scholarship is not yet available but will later be provided by T. T. Bower, Esq., of Winnipeg, at which time the conditions of award will be announced.

DEPARTMENT OF CHEMISTRY

William Moffat Scholarship

Value \$20. Founded by Dr. William Moffat of Utica and awarded annually to the student making the highest standing in first year Chemistry.

Dr. William H. Nichols Scholarship in Chemistry

Founded by Dr. William H. Nichols.

A Scholarship of the value of \$40 will be awarded to the student obtaining the highest marks during the year in Chemistry 2.

Susan Near Scholarships in Chemistry

Founded by the late Susan Near of Toronto.

Two Scholarships of the value of \$100 and \$50 to be awarded to the students with the highest standing and the second highest standing in Chemistry 12, 13 taken concurrently, provided that in each case the average on these subjects is at least 75%.

DEPARTMENTS OF GEOLOGY AND MINERALOGY

Manley B. Baker Scholarships in Geology

Founded by Agnes Moreland Baker. Two Scholarships of the value of \$125 and \$75 will be awarded annually to the students in the Faculty of Arts or of Applied Science obtaining highest and second highest standing in the first three courses in Geology. These may include Mineralogy 10a (Arts) or Mineralogy III (Science). If two students are equal preference will be given to the one whose need is greater.

Susan Near Scholarship in Geology-Mineralogy

Founded by the late Susan Near of Toronto.

Value \$100: awarded to the student making the highest standing in Mineralogy 10a, Mineralogy 11, Geology 10b, Geology 11.

GENERAL SCHOLARSHIPS**American Legion Scholarship**

Value \$100. Established by Dr. George Hayunga of New York.

To be awarded annually to a student officer of the Queen's University Contingent of the Canadian Officers' Training Corps, the selection to be made by the Committee on Military Education from a group nominated by the Commanding Officer. In determining the award academic standing will be taken into consideration. If the winning student is in his final year the scholarship will be awarded as a prize.

B'nai B'rith Kingston, Bursary

Value \$50. Founded by the B'nai B'rith Lodge of Kingston. This Bursary will be awarded annually to a student of promising ability but straitened circumstances. The award will be made on the basis of the April examinations. Applications will be received up until April 1 of each year.

C.O.T.C. Scholarship

Value \$100. Maintained by the regimental funds of the Queen's University Contingent of the Canadian Officers' Training Corps. To be awarded annually to a member of the Contingent who is not an officer. The selection will be made by the Committee on Military Education from a group recommended by the Commanding Officer. In determining the award academic standing will be taken into consideration.

Pipe Band Scholarship

Value \$25. Maintained by the Queen's University Pipe Band. Awarded annually to the best piper among the first year students in all faculties on the basis of a piping contest.

Robert Bruce Scholarships

Under provisions in the will of the late Robert Bruce of Quebec the University has established a Scholarship worth about \$70 in each of the Faculties of Arts, Applied Science and Medicine. Until 1948 the award is limited to students of Scottish extraction.

The Scholarship in each Faculty will be awarded at the end of the first year to the student who has made the highest standing on the

regular examinations of that year. One-third of the value of each Scholarship will be paid to the winner in each of the second, third, and fourth years of his Course provided that he is in attendance in the Faculty in which the award was made.

Robert Bruce Bursaries

The will of the late Robert Bruce of Quebec provided for a sum of about \$90 a year to be given in Bursaries "to students of promising ability but straitened circumstances." Until 1948 the award is limited to students of Scottish extraction.

This sum will be disbursed annually to one or more students in the third or later years in any Faculty. The Registrar will receive applications up to September 1 in each year.

Andrina McCulloch Scholarships for Public Speaking

Founded by the late Andrew McCulloch, M.A., of Thorold.

Scholarships up to a total value of \$400 will be awarded annually in varying amounts to intramural undergraduate students, who show marked ability in public speaking activities.

Conditions of award will be announced at the beginning of the session.

Khaki University and Y.M.C.A. Memorial Fund

This fund is part of a sum, left from the Khaki University after the Great War, which was divided among the Canadian Universities.

The interest, amounting to \$240, will be used to award one or more scholarships open to undergraduate students in any Faculty. In awarding these scholarships the need as well as the standing of applicants will be considered and preference will be given to returned men, or sons or daughters of soldiers of the Great War. Applications will be received by the Registrar up to April 1st.

University Scholarships

Six scholarships of the value of \$100 and eight of the value of \$75 will be awarded at the close of each session to students completing first, second and third year work, who will be in attendance during the following session. (One of the \$100 scholarships is maintained by the class of 1940 and has been dedicated to one of their class members, Sidney Watson, who was killed on active service on April 3, 1941; one of the \$75 scholarships is maintained by the class of 1939).

The O. M. Montgomery Memorial Fund

Established by the Aluminum Company of Canada in memory of Mr. O. M. Montgomery who graduated from Queen's University in Elec-

trical Engineering in 1905. This Fund will be used to provide bursaries for worthy students in need of financial help. It will be administered by a Committee consisting of the Principal, the Vice-Principal, the Registrar, and a representative of the Aluminum Company. Awards may be made in any Faculty, and may only be regarded as gifts at the discretion of the Committee when made to sons or daughters of employees of the Aluminum Company. Otherwise repayment is expected in one or both of the various ways:

(1) By service to the University if the beneficiary has time and is qualified for the work available. Such service shall be assistance in a department, or office, or library, or laboratory, or some other comparable employment.

(2) By return in cash of the sum granted, or of the part not worked out. In such case the award is regarded as a loan without interest, payable at some convenient time to be agreed upon.

Welch Scholarship

Value \$100. Founded by Frederick Welch of Kingston. Awarded in the Faculty of Arts and open for competition only to the sons and daughters of non-commissioned officers and men who served overseas in the Great War, and of mechanics and labourers, which students shall at the time be bona fide residents of the City of Kingston; preference being given to the children of soldiers. Application for this Scholarship must be made to the Registrar not later than April 1 and must give evidence of eligibility in accordance with the terms of the will. The Scholarship will be awarded on the basis of the April examinations.

Reuben Wells Leonard Penultimate Year Scholarships

One Scholarship of the value of \$300 and one of the value of \$200. Awarded at the end of the penultimate year to the students obtaining highest and second highest standing in the Faculty of Arts. The winning students must be in residence the year following the award.

Reuben Wells Leonard Special Scholarships

Special Reuben Wells Leonard Scholarships for merit and need will be awarded in varying amounts to students of promising ability but straitened circumstances. The awards will be made on a loan or service basis.

Exchange Plan for Undergraduates of Canadian Universities

The object of the Exchange Plan is to permit specially selected students to take a year of work at a university of another section of the country, provided that such students undertake to return the following

year to their own university. Students accepted under the exchange plan will be permitted to take a full year's work at the desired university with exemption from tuition.

Applications for an Exchange Scholarship must be in the hands of the Registrar not later than March 1st.

III—GRADUATE FELLOWSHIPS

A—Arts Research Fellowships

The University will award two Fellowships of the value of \$500 and one or two of smaller value. These will be open to men and women who have taken an Honours B.A. at Queen's or an equivalent degree elsewhere. At the discretion of the Committee on Arts Research one of the \$500 Fellowships may be awarded as a Travelling Fellowship, but with this exception the appointments are given only to those undertaking graduate studies at Queen's.

A student appointed to a Travelling Fellowship must submit and have approved a plan of study, and must present a report on his year's work within twelve months of his appointment.

A student appointed to a Fellowship within Queen's may be required by the Committee in consultation with the Department concerned, to undertake work of any of the following kinds: (a) Independent investigation, (b) Assistance in research work carried on by the Department, (c) Tutorial assistance not to exceed six hours a week.

The holder of a Fellowship may be required to report in lectures or in written form the results of any investigations carried on.

The holder of a Fellowship shall not be permitted to do any tutorial work except such as may be required of him by the Department in which his special studies lie. In no case shall tutorial work exceed six hours a week or entitle the Fellow to additional remuneration.

Applications must be sent to the Registrar, accompanied by evidence of eligibility, not later than April 1 of each year.

The Fellowships will be awarded only to candidates of distinction and promise.

Reuben Wells Leonard Travelling Fellowship, value \$245

This Fellowship is awarded annually to a student intending to do postgraduate work at a University within the British Empire.

B—Fellowships in Chemistry

Milton Hersey Fellowship in Chemistry

This Fellowship, of the annual value of \$400, is endowed by Milton L. Hersey, M.Sc., LL.D., of Montreal. It is open to graduates of all universities and technical colleges.

The holder of this Fellowship shall carry on research work for the whole session and embody the results in a thesis. The research may take the form either of independent investigation or of assistance in an investigation carried on by some department. The Fellow may be required to undertake tutorial work not to exceed six hours a week.

Applications for Fellowships will be received by the Registrar up to May 1. If no appointment is made by that date, further applications will be received up to September 1.

William Neish Fellowship in Chemistry

This Fellowship of an annual value of \$400 has been endowed by Ada E. Neish and Laura Neish Black of Kingston. It is open to graduate students in Chemistry from Queen's or other Universities.

The holder of this Fellowship shall carry on research work at Queen's for the whole session under the direction of some member of the Department of Chemistry and embody the results in a thesis. The Fellow shall be required to give laboratory instruction or its equivalent not to exceed nine hours a week.

The C.I.L. Fellowship in Chemistry and Chemical Engineering

Value \$750. Founded by the Canadian Industries Limited for research in Chemistry or Chemical Engineering. This is a Resident Fellowship open to graduates of Queen's or other Universities. Applications must be received by the Registrar by April 1st.

C—Scholarship in Geology

J. B. Tyrrell Scholarship in Economic Geology

Founded by J. B. Tyrrell, LL.D., of Toronto.

Value dependent on dividends received. This Scholarship will be awarded to a graduate student who is working in the field of Economic Geology.

Applications must be sent to the Registrar not later than April 1st of each year.

D—Fellowships in History

Sir James Aikins Fellowship in Canadian History

This Fellowship of the annual value of \$400, was created through the generosity of Sir James Aikins, K.C., LL.D., of Winnipeg, who gave an amount creating an annual revenue of \$200. This was supplemented by an equal sum contributed by Queen's University. It will be awarded to the student obtaining the highest standing in the Honours courses in Canadian History, namely, History 20, 28, or such other courses as the Professor of Colonial and Canadian History shall determine.

The Fellowship will be tenable only by students who return to the University for further work in Canadian History and will be subject to the same conditions regarding tutorial work as the Arts Research Fellowships.

Western Ontario Graduates Fellowship in History

This Fellowship of the annual value of \$320 was created through the generous contribution by graduates of the University in western Ontario of an amount creating an annual revenue of \$160, which was supplemented by an equal sum contributed by Queen's University. It was established for the purpose of encouraging research in History and of providing junior assistants in the Department of History. It is awarded within the discretion of that Department to an advanced student of satisfactory academic standing in attendance at the University, and is subject to the same conditions regarding tutorial work as the Arts Research Fellowships.

E—Fellowship in Philosophy

George MacBeth Milligan Fellowship in Philosophy

This Fellowship, of the annual value of \$400, has been endowed by George MacBeth Milligan of Toronto. It will be awarded to a graduate who is qualified to carry on independent research work in Philosophy or Psychology.

The Fellow appointed shall carry on research work at Queen's University for the whole session and shall embody the results in a thesis. Such research may take the form of assistance in an investigation. Tutorial or other help may be required, under the same conditions as for the Arts Research Fellowships.

The Fellowship may be awarded to a qualified graduate of another university.

F—Reuben Wells Leonard Fellowships

Under the will of the late Reuben Wells Leonard provision was made for the following Fellowships:

Four Fellowships of the value of \$500 will be awarded to graduates of the University "who are willing and qualified to undertake independent research work in the interests of higher culture". These Fellowships are tenable only by students in attendance at Queen's.

Application must be made to the Registrar not later than April 1st.

G—Reuben Wells Leonard Fellowships

Fellowships of varying amounts will be available during session 1943-44 for Queen's graduates continuing their work at Queen's University. Application for these Fellowships must be received by April 1.

IV—FELLOWSHIPS NOT CONTROLLED BY THE UNIVERSITY

A—The Marty Memorial Scholarship

This scholarship in memory of Dr. Aletta Marty, valued at not less than \$750, is offered by the Queen's University Alumnae Association. Any woman graduate of Queen's University with a Master's degree may hold this scholarship, which will ordinarily be awarded for a year's graduate work overseas. A committee chosen by the Alumnae Association will make the award.

The scholarship may be awarded to the same woman for a second year. The committee is authorized to withhold the award in any year for financial or academic reasons.

Applications should reach the Registrar not later than January 1st each year. Candidates must have the Master's degree when they hold the scholarship but not necessarily when they apply for it. Further information may be obtained from the Registrar's Office.

This Scholarship has been awarded to the following graduates of Queen's University: 1937, Winifred E. Rutledge; 1938, Jeanne Le Caine; 1939, Elise M. Berry; 1940, Anne H. Sedgewick; 1941, Eleanor L. Clarke; 1942, Joyce Hemlow; 1943, Kathleen Butcher.

B—The Rhodes Scholarship

1. *General Regulations*—A Rhodes Scholarship is tenable at the University of Oxford and may be held for three years. Since, however, the majority of Rhodes Scholars obtain standing which enables them to take a degree in two years, appointments are made for two years in the first instance, and a Rhodes Scholar who may wish to remain for a third year will be expected to present a definite plan of study for that period satisfactory to his College and to the Rhodes Trustees.

Rhodes Scholars may be allowed, if the conditions are approved by their own College and by the Oxford Secretary to the Rhodes Trustees, either to postpone their third year, returning to Oxford for it after a period of work in their own countries, or may spend their third year in postgraduate work at any university of Great Britain, and in special cases at any university on the continent of Europe, the overseas dominions, or in the United States, but not in the country of their origin.

The stipend of a Rhodes Scholar is fixed at £400 per year. At most Colleges, and for most men, this sum is not sufficient to meet a Rhodes Scholar's necessary expenses for Term-time and Vacations, and Scholars who can afford to supplement it by £50 per year from their own resources will find it advantageous to do so.

2. *Conditions of Eligibility*—A candidate to be eligible must:

1. Be a British subject, with at least five years' domicile in Canada, and unmarried. He must have passed his nineteenth year, but not have passed his twenty-fifth birthday on October 1st of the year *for* which he is elected.

2. Have reached such a stage in his course at one of the Universities in Canada that he will have completed at least two years at the university in question by October 1st of the year *for* which he is elected.

Candidates may apply either for the province in which they have their ordinary private domicile, home or residence, or for any province in which they have received at least two years of their college education before applying.

In that section of the Will in which he defined the general type of scholar he desired, Mr. Rhodes wrote as follows:

"My desire being that the students who shall be elected to the Scholarships shall not be merely bookworms, I direct that in the election of a student to a Scholarship regard shall be had to:

1. his literary and scholastic attainments;
2. his fondness for and success in manly outdoor sports such as cricket, football and the like;
3. his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindness, unselfishness and fellowship, and
4. his exhibitions during school days of moral force of character and of instincts to lead and to take an interest in his schoolmates for those latter attributes will be likely in after life to guide him to esteem the performance of public duty his highest aim."

Full particulars may be obtained from D. R. Michener, 372 Bay St., Toronto, Secretary of the Selection Committee for the Province of Ontario. Two Scholarships may be awarded annually in the provinces of Quebec and Ontario if qualified candidates appear.

Each candidate for a Scholarship is required to make application to the Secretary of the Committee of Selection of the province in which he wishes to compete, not later than November 10th. Application forms may be obtained from the Registrar's Office.

The following graduates of Queen's University have been awarded Rhodes Scholarships:

1905, J. M. Macdonnell; 1906, A. G. Cameron; 1907, N. S. Macdonnell; 1911, S. Scott; 1912, H. S. Smith; 1914, A. G. Cumming; 1919, H. R. MacCallum; 1920, K. E. Taylor; 1922, A. D. Winspear; 1925, L. F. Kindle; 1926, D. A. Skelton; 1936, J. G. Davoud; 1937, G. M. Brown; 1938, G. P. Grant; 1941, G. S. Bowell, R. S. Rettie.

This Scholarship is not controlled by the University.

C—Royal Society of Canada Fellowships

Ten annual fellowships to be known as the Royal Society of Canada Fellowships, each of \$1500, and open on equal terms to men and women, have been endowed through the generosity of the Carnegie Corporation. They are tenable at institutions of learning or research, save in exceptional circumstances outside of Canada, and are available for advanced research in Literature, History, Anthropology, Sociology, Political Economy, or allied subjects, in French or English; and in Mathematics, Chemistry, Physics, Geology, Biology, or subjects associated with any of these sciences.

An applicant for a Fellowship should be a graduate of a Canadian university or college, or should have received an equivalent training in a Canadian institution possessing adequate facilities in his particular subject, and, except in special cases, should have the Master's degree or its equivalent or, preferably, have completed one or more year's work beyond that degree.

Applications, addressed to "The Secretary, Royal Society of Canada Fellowships Board, Ottawa, Canada," should contain particulars of the candidate's age and place of birth, a full statement of his academic career, with copies of original papers and any other evidence of his ability or originality in his chosen field; also an indication of the particular work he proposes to undertake, at what institution, and under whose direction; and should be supported by recommendations from the head of the department of the institution in which the candidate has studied, and from the instructors under whom he has chiefly worked. All these papers should be in duplicate.

The following graduates of Queen's have held these Fellowships:

1932-33, Christine Rice; 1932-33, H. W. Fairbairn; 1933-34, G. A. Harcourt; 1936-37, W. C. Güssow; 1937-38, A. W. Currie; 1938-39, J. S. Marshall; 1941-42, J. Dingwall; 1942-43, J. L. Evans.

This Fellowship is not controlled by the University.

D—Exhibition of 1851 Science Research Scholarships

This postgraduate scholarship of the annual value of £250 was founded by Her Majesty's Commissioners for the Exhibition of 1851, and is awarded to students who have given evidence of capacity for original research, and, except in very special circumstances, are under 26 years of age.

A given number of Scholarships are awarded annually to students in Canada recommended by the Universities approved by the Commission.

The nominee must be a British subject, must have been a *bona fide* student of Science for three years, must have been a student of this

University for a full year immediately before his nomination, must be a student of this University at the time of his nomination (or he must have been a student at this University for a full year ending within twelve months prior to his nomination and since ceasing to be such student must have been engaged solely in scientific study), and must pledge himself not to hold, without special permission from the Commissioners, any position of emolument while holding the scholarship. He is recommended to the Commissioners by the Senate of the University. The scholarship may be held for two years, if the report of the first year's work be satisfactory to the Commissioners, and in exceptional cases for a third year. In the absence of special circumstances, the scholar will not be permitted to conduct his investigations in the country in which he received his scientific education. The particular investigation the student proposes to pursue must be stated before a scholarship can be awarded.

The scholarship is payable quarterly in advance and a grant of £25 will be paid if a satisfactory final report is presented within three months of the expiration of the scholarship. If in the opinion of the Commissioners it is necessary a scholar will receive an additional annual allowance not exceeding £30, and in some cases the fare from his University will be partially paid.

Recommendations must be received at the office of the Commissioners on or before June 1.

The following Science Research scholars have been appointed from Queen's University:

1894, N. R. Carmichael; 1896, T. L. Walker; 1898, F. J. Pope; 1900, W. C. Baker; 1901, C. W. Dickson; 1904, C. W. Knight; 1905, F. H. McDougall; 1907, C. Laidlaw; 1909, N. L. Bowen; 1911, W. A. Bell; 1913, J. R. Tuttle; 1915, R. C. Cantelo; 1921, D. G. H. Wright; 1924, R. H. F. Manske; 1924, D. C. Rose; 1926, H. M. Cave; 1928, B. W. Sargent; 1931, E. H. Charlesworth; 1932, G. S. Farnham; 1932, W. J. Henderson; 1934, W. E. Bennett; 1935, J. S. Marshall; 1937, A. G. Ward.

This Scholarship will not be awarded again until after the war.

E—Scholarship of the Canadian Federation of University Women

The scholarship of the Canadian Federation of University Women, value \$1,250, available for study or research work, is open to any woman holding a degree from a Canadian University. In general, preference will be given to those candidates who have completed at least one or two years of graduate study and have a definite research in preparation. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself.

This Scholarship is not controlled by the University.

For all information address the Convener of the Scholarship Committee, Miss Jean E. Murray, University of Saskatchewan, Saskatoon, Saskatchewan. Applications must be received not later than February 1st.

The following graduates of Queen's University have been awarded the Federation Scholarship:

1930-31, Mary White; 1935-36, Marie (Hearne) Creech; 1940-41, Jeanne Le Caine; 1941-42, Anne Sedgewick; 1943-44, Joyce Hemlow.

F—Daughters of the Empire Post-graduate Fellowship (Overseas)

As part of their War Memorial the Imperial Order, Daughters of the Empire offers in each Province in Canada a scholarship for postgraduate study in Britain. The scholarship, of the value of \$1,400, is tenable for one year, but it may be awarded to the same person for a second year..

The following graduates of Queen's University have been awarded Daughters of the Empire Overseas Scholarships:

1921-22, Watson Kirkconnell; 1923-24, Hartley Munro Thomas; 1936-37, Henry Stanley Ferns; 1938-39 and 1939-40, Thomas John Allen.

This Scholarship will not be awarded again until after the war.

V—PRIZES

The Alexander MacLachlan Peace Prize

The Alexander MacLachlan Peace Prize has been established by the MacLachlan family in memory of Alexander MacLachlan, former President of International College, Smyrna, who throughout his life worked for a better understanding among nations.

Value \$30. Awarded annually for the best essay of 3,000 words on the subject, *Promotion of Enduring World Peace*. The prize is open to all undergraduates of Queen's University, both intramural and extramural. The essay must be clearly written or typewritten, and must be sent in to the Registrar's Office on or before March 1st, accompanied by a statement signed by the candidate that the essay is the result of his own reading, thinking, and discussion and that he has not been assisted by other students in writing it.

Prince of Wales Prize

A prize of the value of \$32 in books. Founded in 1860 by H.R.H. the Prince of Wales. Awarded to the graduating student in the Faculty of Arts who is adjudged to have the best academic record at Queen's.

The M. C. Cameron Prize in Gaelic

Value \$40. Founded by the late M. C. Cameron, M.P., Goderich. Awarded to the best Gaelic scholar, reader or speaker, provided that he does not take less than 50% of the total number of marks in the competitive examination. Application for examination should be submitted to the Registrar before January 15 in each year. Work prescribed: any 600 lines of Ossian's *Fingal*, or an equivalent amount of any other Gaelic literature selected by the candidate; Blackie's *Language and Literature of the Scottish Highlands*, Gaelic Grammar, translation at sight of Gaelic into English and English into Gaelic.

SUMMER SCHOOL PRIZES

Curtis Memorial Foundation

Value about \$56. Founded in memory of the late J. T. Curtis of Ottawa. Awarded in October to a graduate of that year (April or September), who has completed the degree Course by extramural and Summer School work. The award is made by a special committee on the basis of scholastic ability, interest in athletics, and service to the Summer School.

Edgar Forrester Scholarship in Oral French

Founded by the late Edgar Forrester, Esq.

Value \$20: awarded to the student making the highest standing on the Summer School examination in Oral French.

The W. T. MacClement Prizes

Founded by Queen's Summer School Association.

Four prizes of the value of \$16 each. The Queen's University Summer School Association has established in memory of Dr. W. T. MacClement, the first Director of the Summer School, four prizes to be awarded on the results of the September examinations in English 2, Philosophy 1, History 3 and Biology 1 to the Summer School students who stand first in these courses.

VI—MEDALS

A medal is awarded annually by the University to the candidate in each major subject who has made the highest standing on the whole of his Honours work in that subject, provided such standing is Class I.

GENERAL REGULATIONS

All enquiries regarding regulations should be addressed to the Registrar.

Changes in regulations become effective immediately.

SPECIAL STUDENTS

1. Special students are those who do not intend to proceed to a degree. Such students may be admitted on satisfying the Faculty as to their ability to profit by the courses to which they seek admission.

2. Special students under twenty-one at the opening of the session are subject to all the regulations affecting regular students and to the following special regulations:—

(i) They shall not be granted admission for more than one session, though they may be readmitted to a succeeding session on a new application.

(ii) They shall not be allowed any supplemental examination but must withdraw from the University immediately if they fail to satisfy the Faculty at the regular mid-year or April examinations.

(iii) Examinations passed by special students shall carry no credit towards Matriculation or towards a degree.

(iv) Attendance as a special student will not count as part of the attendance required for a degree.

3. Special students over twenty-one years of age at the opening of the session may by action of the Faculty be exempted from all regulations respecting attendance and work.

REGULATIONS REGARDING COURSES

Attendance and Exercises

4. *Attendance.* Students are expected to be present at all lectures and laboratory periods in their courses, and to hand in all essays and class exercises when due.

Deficiency in attendance. Students who have not yet obtained standing in at least five courses since their first registration, are subject to the following regulation:

If during the session they are absent from more than one-eighth of the class and laboratory periods in a subject, they will not be admitted to the final examination in that subject; and they will be considered to have failed in it. They will be subject to the regulations regarding supplemental examinations as explained in Section 9.

Students who exceed the limit of absences because of illness will have their cases reviewed by the Faculty. Students who claim consideration must submit certificates from the attending physician.

A record of absences based on monthly reports from Instructors is kept at the office of the Dean of the Faculty.

5. The December and April marks are determined not merely by the results of examinations but also by the work of the whole term or session, including consideration of class tests, examinations, attendance, and progress.

6. The faculty may, at any time, either during the term or after the close of the term, require any student to withdraw from the University, whose conduct, attendance, work, or progress is deemed unsatisfactory.

Failures and Low Grades

7. Students who fail in any course they intend to count towards a degree must repeat the course before coming up for examination in that course in any subsequent year.

8. *Supplemental Examinations.* Students who pass in at least three subjects in April are permitted to write supplemental examinations in September on the courses in which they have failed, provided that examinations are offered in these courses (See section 23, page 77).

9. *Loss of Year.* Students who at the April examinations pass in fewer than three subjects are considered to have lost their year and they do not have the privilege of supplemental examinations. Students who at the April and September examinations pass in fewer than four out of five subjects are considered to have lost their year.

10. Students who fail in five classes on the April examinations are required to withdraw for at least one academic year. Students having other serious failures are considered by the Board of Studies who recommend action to the Faculty of Arts.

11. Students who fail a year retain credit only in those subjects in which they have obtained at least Grade B standing.

12. Students who twice in Course fail a year's work are required to withdraw from the Faculty of Arts.

13. Students whose standing for the first term is regarded as unsatisfactory may be required to withdraw for the rest of the year.

14. Students who are readmitted after having been required to withdraw, students who reregister in the Faculty of Arts after having failed in four out of five examinations in the last year of attendance, and students who have been required to withdraw from another Faculty, are placed on probation until Christmas. At that time they are required to withdraw if they do not pass as many as three out of the five midyear examinations. Each case is reviewed carefully by the Committee on Failures and the Instructors concerned.

Number of Courses in a Year

15. No student is allowed to take more than five lecture courses in the academic year except as provided below.

Students are permitted to take by extramural or extramural and Summer School work one back class during the summer following a winter session in which they have passed in five classes. This regulation is not open to a student who has failed a year. (See Regulation 4, page 42—Plan for acceleration during war period).

16. Intramural students, unless excused for some special reason, must take five courses in each of the first and second years. In no case are such students allowed to take fewer than three courses in the first or second year. In exceptional circumstances, they may, however, with the consent of the Board of Studies, take three or four courses in the winter session and the rest in the summer, provided that they attend the Summer School.

17. Students, who without special permission drop a course, are regarded as having failed in that course.

Preparatory Courses

18. Students with full Matriculation who desire to begin work in Greek, German or Spanish may count course A in one or more of these subjects towards a Pass degree. They may count course A in one only of these subjects as a free option towards an Honours degree.

Unmatriculated students who use an A course in a language to remove an entrance condition may not count this course as a credit towards a degree. (See regulation 18, page 40).

19. Courses A and 1 may not be substituted for courses 1 and 2 where the latter are definitely prescribed.

REGULATIONS REGARDING EXAMINATIONS

(See also Regulations 5 to 14)

Mid-Term Examinations

20. Hour examinations in regular class hours may be held by any instructor whenever he thinks advisable.

Mid-Year Examinations

21. Midwinter examinations in all whole courses are held during the last week before the Christmas holidays. In these courses credit not exceeding fifty per cent. of the final marks may be assigned to the work of the first term. The attention of students is called to Regulations 5 and 10. Final examinations in half-courses of the first term are held in January (see page 6).

April Examinations

22. Final examinations are held in April. Intramural students must take these examinations in all the whole courses and half-courses in

which they are registered in the second term. Permission to postpone until September examinations in courses numbered under 10 may be obtained in special cases but only upon the recommendation of the Professors concerned. Honours examinations may not be postponed. Examinations will be held in the Reading courses of all subjects.

The attention of students is specially called to Regulations 5, 10, and 12.

September Examinations

23. Supplemental examinations are held in September in all Pass courses and in the first course in Honours but no supplemental examinations will be given in courses beyond the first three courses of a Major or Minor subject for the Honours B.A. degree. September papers will be set in Reading courses 1 and 2 for those who do this reading during the summer and in all subjects offered at the Summer School.

24. At the specified date (see pages 5 and 6) before the September examinations begin, all candidates must apply to the Registrar for permission to write on the subjects in which they desire to be examined. The application must be on printed forms supplied for the purpose and must be accompanied by the proper fees. See FEES.

Special Examinations

25. Students who for any reason fail to take an examination on the appointed date may be required to take a special examination. The fee is five dollars for one special examination; ten dollars for two or more special examinations.

Admission to Examinations

(See also Regulations 4, 22, 23)

26. Students are not permitted to take examinations unless they have registered on the prescribed date within the academic year in which they present themselves. (See REGISTRATION.) But graduates not in attendance, who wish to take examinations merely to raise their standing in subjects already passed, may delay their registration until February 15.

27. No candidate will be admitted to the examination hall later than thirty minutes after the beginning of the examination.

28. No candidate will be permitted to take any books or papers into the examination hall except by express direction of the examiner.

Determination of Standing

29. In determining a student's standing at a sessional examination the Departments take into account the entire class record. See Regulation 4.

30. Students are given credit for the full work of the year if they have passed each of five classes with at least 50%.

31. The following percentages are required for the various grades of Pass and Honours standing in all courses:

PASS STANDING

(Applying only to courses numbered under 10)

Grade A	75 per cent. and over.
Grade B	62-74 per cent.
Grade C	50-61 per cent.

HONOURS STANDING

(Applying to all courses numbered 10 or over and to Reading courses)

Grade A	75 per cent. and over.
Grade B	66-74 per cent.
Grade C	55-65 per cent.

A student who makes 50% to 54% on any course numbered 10 or over is permitted to count this course towards the Pass degree. No credit is given towards an Honours degree.

COURSES OF STUDY LEADING TO THE DEGREE OF B.A.

GENERAL EXPLANATIONS

Pass and Honours Courses

The word "Course," when printed with an initial capital, is used to indicate a programme of work leading to a degree or certificate.

A candidate for the degree of Bachelor of Arts may take a Pass Course or an Honours Course. The latter requires greater specialization and higher standards in the work of the two main subjects. Details are given below under REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS.

Courses and Half-Courses

The word "course," printed with an initial small letter, indicates a unit of work occupying, as a rule, three hours a week throughout the session. A "half-course," on the other hand, usually occupies only one term, though occasionally it may run through the session.

Two half-courses are equivalent to a whole course, and when the amount of work to be done is defined in courses, it is to be understood that an equivalent in courses and half-courses may be offered.

Numbering of Courses and Half-Courses

Preparatory courses in the languages are designated by the letter A. See GENERAL REGULATIONS. Other courses are numbered with Arabic numerals (Latin 1, Greek 2). Half-courses have in addition to the numeral the letter *a* or *b*, according as they are offered in the first or second term. Courses in advanced work marked "t" are two-hour courses extending throughout the year.

The fundamental courses in each subject are numbered 1 and 2 (History 1 or 3) and must be taken by all proceeding to advanced work in the subject. Other courses numbered under 10 are for Pass students only. Courses numbered 10 and upward are Honours courses, though in most departments some of them are open to Pass students also.

SYNOPSIS OF COURSES

The following Courses of Undergraduate Study are offered in the Faculty of Arts:

Pass Courses leading to the degree of B.A.

Honours Courses leading to the degree of B.A. with Honours and Specialist standing.

Courses in Commerce and Administration.

Combined Course in Arts and Applied Science.

Combined Course in Commerce and Applied Science.

Combined Course in Arts and Theology.

Course in Nursing.

Candidates are subject to changes in Regulations or Courses made after their first registration unless in the judgment of the Board of Studies undue hardship is involved.

All enquiries regarding Regulations should be addressed to the Registrar.

REQUIREMENTS FOR A PASS B.A. DEGREE

A candidate for a Pass degree must pass twenty classes, chosen in accordance with the three regulations given below, and must make a standing of Grade B or over in at least ten. In courses numbered 10 or over Grade C will count as the equivalent of Grade B.

A. The twenty classes offered for a degree must include the following eight:

English 1, English 2,

Latin 1, or Mathematics 1,

Any two chosen from Greek 1, German 1, French 1, Latin 1, Latin 2, Greek 2, German 2, French 2,

Philosophy 1 or 2,

Any *one* chosen from History 1, History 3, Greek and Roman History 4, Economics 4, Politics 2,

Any *one* chosen from Physics 1, Chemistry 1, Biology 1, Geology 1 or Geography 1, Mineralogy 1.

B. Candidates must so arrange their work as to include at least three classes in each of three subjects.

C. Additional classes to make a total of twenty may be freely chosen, subject to the regulations regarding prerequisites, from those listed under the heading "Details of Courses of Instruction."

Courses in Italian, Spanish, and Religious Knowledge may be counted towards a degree as optional subjects, but of these only Spanish may be taken as an Honours subject.

As many as three courses in Commerce, numbered 50 or over, may be counted towards the degree of Pass B.A.

Note: Students on the Pass Course interested in preparing to teach Geography under the new System of Studies in the Schools are advised to include in the degree programme

Physics 1, Chemistry 1, Biology 1, 10, 31, Economics 4, 10, History 3, 13, Geology 1 or Geography 1, Geology 16a, Mineralogy 16b.

HONOURS COURSES LEADING TO THE DEGREE OF BACHELOR OF ARTS

There are several types of Honours Courses:

- (a) The Specialized Honours Course.
- (b) The General Honours Course.
- (c) The Honours Course for students preparing for admission to the Ontario College of Education for specialist work in English and French, English and Latin, Latin and French, French and German or Spanish (see page 87, Section IV, Specialist Certificates).

I. Admission to Honours

- (a) At the end of the second year from Pass Matriculation or first year from Honour Matriculation candidates for Honours must make formal application to the Registrar for admission. These applications will be referred first to the departments concerned for recommendation, and then to the Committee of Departments for final action.

Candidates will be admitted to an Honours Course if in their special subjects they have made at least 62% in the preceding pass class and at least 60% in the preceding class numbered 10 or over, and if their standing in other subjects is considered satisfactory.

(b) At the end of each year each candidate's record is reviewed by the Committee of Departments to determine his fitness to proceed in Honours. All not doing satisfactory work are required to revert to a Pass Course.

II. General Plan of Specialized Honours Courses

A. WEIGHT OF WORK

The programme of work for the specialized Honours Degree consists of twenty lecture courses and three Reading courses.

Of the twenty-three courses required,

(a) Twelve constitute a Major as follows:

(1) Nine lecture courses of which seven shall be in one subject and the remaining two, at the discretion of the Major Department, shall be in the same subject or shall be supporting work in other subjects. For the purpose of this regulation, Italian 1 shall be regarded as a course in Spanish, and Geology and Mineralogy shall be regarded as a single Department.

If Pass courses from another Department are prescribed as part of the Major group, the candidate must make Grade B in them; if advanced courses from another Department are approved, the candidate must make Grade C in them but will be exempt from the regulations regarding standing in earlier work in the subject.

(2) Three Reading courses. Each of these in weight of work shall be the equivalent of a three-hour lecture course and the content will be determined by the Major Department. At the discretion of the Major Department a thesis may be substituted for an examination in one of the Reading Courses. Field work or research, approved by the Major Department, may be substituted for one of the Reading courses but no candidate shall be required to make such substitution. (For special regulations governing the Honours Courses in Chemistry and Geology, and Mineralogy, see pages 177, 185, 190.)

(b) The Minor shall ordinarily consist of five courses in one subject but the Minor department may substitute for one of these a related or prerequisite course from another department. For purposes of this regulation Geology and Mineralogy shall be regarded as a single subject.

(c) Six are compulsory general courses. Each Honours student must take English 1, 2, French 1 or German 1 or Greek 1, Latin 1 or Mathematics 1, Philosophy 1 or 2, a Science. If some of these classes are included in the special subjects an equal number of other classes outside the special subjects must be substituted.

The detailed prescription of work for each subject of instruction shows in the introductory matter the general courses required when that subject is taken as a Major.

B. COMPULSORY COURSES

(a) The following classes must be included among Major, Minor, and General courses:

English 1, 2.

Latin 1 or Mathematics 1.

Latin 1 must be taken by candidates whose Major or Minor is in English or a foreign language. Mathematics 1 must be taken by candidates whose Major or Minor is in a science.

French 1 or German 1 or Greek 1.

Philosophy 1 or 2.

A science course.

(b) Other compulsory courses may be required, but in that case they must be counted as part of the Major or Minor.

III. Length of Course

The Course for the degree of B.A. with Honours normally covers five years from Pass Matriculation or four years from Honour Matriculation in five full subjects. Ordinarily candidates are not permitted to register in any academic year in more than five courses including Reading courses. It is possible, however, for candidates of exceptional ability to complete the Course in four years from Pass Matriculation or three years from Honour Matriculation by taking five regular lecture courses or the equivalent in hours in each of three years, and by doing the Reading courses in the penultimate and final years and in the intervening summer. Such candidates must have passed with Grade A standing in each special subject and an average of Grade A on the year's work preceding admission to Honours.

A candidate is expected to complete his general courses by the end of the third year.

IV. Final Year Examinations on the Honours Courses

In addition to the regular sessional examinations, candidates must write general examinations at the conclusion of their Course as follows:

- (i) Specialized Honours Course—two general examinations in the Major subject.
- (ii) General Honours Course—one general examination in each of the three special subjects.
- (iii) Course for students preparing for admission to the Ontario College of Education for specialist work in English and French, English and Latin, Latin and French, French and German or Spanish—one general examination in each of the two special subjects.

V. Classes in Honours

A candidate on the Specialized Honours Course, who completes all prescribed courses satisfactorily and who makes at least 75 per cent. on the advanced work of the Major subject, will be awarded a first class Honours degree; similarly a candidate who obtains 66 per cent. will be awarded a second class Honours degree; and a candidate who obtains at least 60 per cent. will be awarded a third class Honours degree.

A candidate on the General Honours Course, who completes all prescribed courses satisfactorily and makes at least 75 per cent. on the advanced work in each of the three special subjects, will qualify for the first class Honours degree; similarly a candidate who obtains 66 per cent. will be awarded a second class Honours degree; and a candidate who obtains at least 60 per cent. will be awarded a third class Honours degree.

A candidate preparing for admission to the Ontario College of Education for specialist work in English and French, English and Latin, Latin and French, French and German or Spanish, who completes all prescribed courses satisfactorily and makes at least 75 per cent. on the advanced work of each of the two special subjects, will qualify for the first class Honours degree; similarly a candidate who makes 66 per cent. will be awarded a second class Honours degree; and a candidate who obtains at least 60 per cent. will be awarded a third class Honours degree.

VI. Pass Degree on an Honours Course

Candidates who pass all their classes but fail to secure honours because they have made less than 60 per cent. in one or both of the major and minor will be given a pass degree if they have made at least 50 per cent. in each of their subjects.

General Honours Courses

The General Honours Course consists of twenty-four classes made up as follows:

Five lecture courses in each of three special subjects.

One Reading course in each of three special subjects.

Six compulsory general courses:

Each student must take English 1, 2, French 1 or German 1 or Greek 1, Latin 1 or Mathematics 1, Philosophy 1 or 2, a Science. If some of these classes are included in the special subjects an equal number of other classes outside the special subjects must be substituted. In a combination including Physics but not Mathematics it will be necessary for the student to take Mathematics 2, as part of the Physics group, or as one of the compulsory subjects.

The candidate is required to take in addition to course examinations one general examination in each special subject.

The regulations applying to specialized Honours Courses shall apply to the General Honours Course. The minimum time required of exceptional students to finish a degree in the short period, from admission to Honours, is two regular winter sessions, the intervening summer, and the following summer.

N.B. For purposes of this Course, Economics and Politics may be regarded as separate Departments.

Special General Honours Courses

A. Honours in General Science for Teachers:

The following courses are required:

- (a) Biology 1, 10, 16, 11, 19, Reading Course 1.
- (b) Chemistry 1, 2, 12, 13, 14, Reading Course 1.
- (c) Physics 1, 2, 11, 14a, 13b, Reading Course 1, Mathematics 2.
- (d) Six general courses: English 1, 2, French 1 or German 1 or Greek 1, Philosophy 1 or 2, Mathematics 1, one free option.

One general examination in each special subject.

B. The following arrangement will be made for students on the General Honours Course who wish to prepare for the teaching of Geography under the new System of Studies in the Schools:

1. Biology 1, 10, 16, 19, 31, Reading Course 1.
Chemistry 1, 2, 12, 13, 14, Reading Course 1.
Economics 4, 10, Geology 1, 16a, History 13, Mineralogy 16b, History Reading Course 5.

Six compulsory general courses: English 1 and 2, French 1, German 1 or Greek 1, Latin 1 or Mathematics 1, Philosophy 1 or 2, Physics 1.

2. Economics 4, Politics 2, Economics 10, 12, 15, Reading Course 1. History 1, 3, 13, 17, one Honours course to be selected from other offerings in History, Reading Course 5.

Biology 1, 10, 31, Geology 1, 16a, Mineralogy 16b, a Reading Course in Biology.

Six compulsory general courses, as outlined in 1 except that Chemistry 1 will be offered in place of Physics 1.

First Year

Pass Matriculants must take in the first year five courses chosen from the following: Latin 1, Greek 1, German 1, French 1, English 1, History 1 or 3, Mathematics 1, Physics 1, Chemistry 1, Biology 1, Geology 1.

SOCIAL WORK

Students who wish to proceed to Social work after graduation will find that any Arts degree will admit them to a recognized School of Social Work. Such students should include in their degree Course as many as possible of the following subjects: Economics, Sociology, History, Philosophy, Psychology, Biology and English.

COURSE FOR DIPLOMA IN LABORATORY TECHNIQUE

Opportunities to work towards a Diploma in Laboratory Technique will be provided for a limited number of students who complete the Honours degree in Biochemistry, or Chemistry, or Biology, or the Pass degree including Physics 1, and at least three courses in each of Chemistry and Biology to be selected from

Chemistry 1, 2, 10, 3 or 13, 12, Biochemistry 16,
Biology 1, 16, 26, Bacteriology 10.

Advanced courses may be taken only if the student has passed the prerequisite courses with the necessary standing.

Candidates for the Diploma in Laboratory Technique must complete in addition to the required academic work, twelve months of practical laboratory training in the University Laboratories with specialization in one or more of Bacteriology, Haematology, Medical Zoology, Pathological Chemistry, Pathological Histology, Pharmacology, *Radiology, Serology. Candidates may take the necessary laboratory training in twelve months after graduation, or in the summers during the years in which they are registered on the degree programme. Under the latter plan the work may be done in three summers of four months each, and may be begun in the summer after the first year at the University. The fee for the Laboratory programme is \$50.

*Candidates for the Diploma in Radiology should include Physics 1 and 2 on the Degree Course, and they must take the second half of Medical Physics 2 either by consultation and reading, or by regular attendance. The work in Medical Physics will not count on the degree programme.

Adjustments may be made to meet the needs of other specializations if the Department concerned so prescribes.

COURSE IN NURSING

Queen's University offers a course in Nursing which leads to the degree of B.N.Sc. (Bachelor of Nursing Science).

I. *The length of the course* is six years from Junior Matriculation, or five years from Senior Matriculation.

The six years from Junior Matriculation are made up as follows:
Two years in the Faculty of Arts.

Three years of training in Nursing in the Kingston General Hospital, or another hospital where there is an approved School for Nurses. This training leads to graduation as a Registered Nurse. *One year* of study in either (a) Public Health, or (b) Hospital Administration.

The five years from Senior Matriculation are the same as those from Junior Matriculation except that only one year is required in the Faculty of Arts.

II. *Students entering with Junior Matriculation* take the following courses in their two years in the Faculty of Arts:

English 1, 2
Chemistry 1 and one advanced course
Biology 1
Bacteriology 10
Physics 1
Philosophy 2
two optional courses ..

Students entering with Senior Matriculation should, in their Senior Matriculation work, include English, Chemistry, and Biology. Their programme in the year in Arts must be an approved selection from the courses listed above.

III. The first four months of the three years of hospital training is a period of probation. This may be taken in the summer before entering the Faculty of Arts, or in the summer between the two years in Arts, provided that the student is then at least *19 years old*.

IV. *The final year in Public Health* is taken under the direction of the University. It consists of a full academic year of lectures and clinical work, and one month of intensive field work.

The final year in Ward Teaching and Hospital Administration is under the direction of the Kingston General Hospital. It consists of a full academic year of instruction and clinics, visits to other institutions, and practical experience in taking responsibility.

The final year courses may not be offered until the session 1945-46.

COURSES FOR TEACHERS' CERTIFICATES IN THE PROVINCE OF ONTARIO

I. Permanent First Class Certificate

Students holding the Interim First Class Certificate may satisfy the academic requirements for the Permanent Certificate by taking five University courses. This work must include English 2, the other four courses to be chosen subject to the approval of the Department of Education. Some of the classes which may be completed by extramural work are: English 2, Latin 2, History 3, Philosophy 1, Philosophy 2, Economics 4, Politics 2, Mathematics 2. Classes in science and modern languages must be taken in residence either during a regular winter session or by extramural and summer school work.

II. High School Teacher's Certificate

Under the regulations of the Ontario Department of Education a candidate for a High School Teacher's Certificate who holds a First or Second Class certificate and who has had experience in the Public, Separate or Continuation Schools of the Province may be partially relieved from attendance at the Ontario College of Education.

III. High School Assistants' Certificates

The academic standing for admission to the professional Course leading to an ordinary High School Assistant's certificate is the degree of Bachelor or Master of Arts, Bachelor or Master of Science, or Bachelor of Commerce, from a British University, based upon Courses approved by the Minister of Education.

IV. Specialist Certificates

By an agreement between Queen's University and the Department of Education of Ontario, graduates of the Faculty of Arts in certain specified Honours Courses may be certified as having completed the academic requirements for admission to the Qualifying Examinations for Specialist Courses at the Ontario College of Education.

The Department of Education has authorized Specialist Certificates as follows:

Classics	History
Latin and French	Mathematics
Latin and English	Mathematics and Physics
English	Science
English and French	B.Com. Course (Specialist's Option)
French and German or Spanish	

Candidates for the Qualifying Examinations for the Specialist Courses in Latin and French, Latin and English, English and French, French and German or Spanish will take a degree programme made

up of seven lecture courses in each of the two special subjects, two Reading courses in either subject, one Reading course in the other subject, and six general courses as specified under the Departmental Prescriptions for Honours Courses. Students of exceptional linguistic ability may be permitted to take as many as four courses in a third language. In that case they will substitute two courses in the third language for one Reading course in each of the other two languages and they will take two of their optional general subjects in the third language.

Candidates for the Qualifying Examinations for other Specialist Certificates listed will take the regular Honours Courses as outlined under the Departmental Prescriptions.

Candidates for the Qualifying Examinations in Science may take the General Science Course for Teachers or the regular Honours Course in two of Physics, Chemistry, and Biology with adjustments as noted under the Departmental Prescriptions.

V. Commercial Specialist's Certificate

Students working with the Department of Education towards the Commercial Specialist's Certificate will be granted exemption from attendance and examination in the following subjects if they have passed the equivalent University courses with Grade A or B standing. They will be given exemption from attendance only if they have passed the courses with Grade C standing:

<i>Department of Education Courses</i>	<i>University Equivalent</i>
Arithmetic of Investment	Mathematics 7b
History of Commerce and Industry	Economics 4
Theory of Economics	Economics 10
Money and Banking	Economics 12
Business Law	Commerce 60
Bookkeeping	Commerce 63
Accountancy Theory	Commerce 64
Accountancy Practice	Commerce 66b

Note: Theory of Economics is equivalent to Economics 1 in calendars prior to 1939-40.

Graduates in Commerce whose courses have included Mathematics 7b and Commerce 66b will be exempted from attendance and examination in all the subjects of the Commercial Course (Accountancy Option) except Shorthand Theory, Shorthand Practice and Transcription, Typewriting, Penmanship, Office Practice and Business Papers, Minor and Major Methods. If Mathematics 7b or Commerce 66b are not selected as options, exemption will not be given in the equivalent Commercial subjects.

VI. Specialist Certificates for Graduates in Applied Science

Graduates of the Faculty of Applied Science may obtain the standing required for Specialists by taking certain additional courses as stated below.

1. IN MATHEMATICS AND PHYSICS

A degree in Applied Science in one of the Courses of Mining Engineering, Chemistry, Mineralogy and Geology, Chemical Engineering, Metallurgical Engineering, Civil Engineering, Mechanical Engineering, or Electrical Engineering with a subsequent standing of at least 55 per cent. in each of the following courses and an average of at least 60 per cent. in the work of each subject:

Mathematics 10a, 11b, 12a, 15b, 16b, 18t,

Physics 10b, 12a, 13b, 14a,

credit towards these being given when equivalent subjects have been satisfactorily taken in Course.

A degree in Applied Science in the Department of Physics with subsequent standing of at least 55 per cent. in each of the following courses and an average of at least 60 per cent. in the work of each subject:

Mathematics 10a, 11b, 12a, 15b, 16b, 18t, and another advanced full course,

Physics 10b, 12a, 13b, 14a,

credit towards these being given when equivalent subjects have been satisfactorily taken in Course.

2. FOR SPECIALIST STANDING IN SCIENCE

A degree in Applied Science in one of the Departments of Mining Engineering, Chemistry, Mineralogy, Geology, Chemical Engineering, Metallurgical Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, or Physics, with a subsequent standing of 55 per cent. in each of the following courses, and an average of at least 60 per cent. in the work of each subject in courses numbered 10 or over:

Biology 1, 10, 16, 11 or 19,

Physics 11, or 14a and 13b,

Geology 1,

Mineralogy 1,

Chemistry 10, and one of 12, 13, 14, 17 not previously taken, credit towards these being given when equivalent subjects have been satisfactorily taken in Course.

VII. Inspectors' Certificates

The academic requirements for a Public School Inspector's certificate are as follows:

(1) An Honours degree in Arts or the degree of B.Com. (Commercial Specialists' Option) in accordance with the present agreement as prescribed for Specialist qualifications, or

(2) A Pass degree in Arts with a standard of 66% in any five courses beyond course 1, and Grade B in any other five courses.

(3) Candidates shall extend their Course over at least four years from Junior Matriculation and they shall attend the University classes (i) for at least two complete sessions approved by the University, or (ii) for at least one complete session, and two complete sessions of the Summer School, or (iii) for at least four complete sessions of the Summer School, or the equivalent thereof, with the supervision prescribed by the scheme agreed upon between the Department and the University.

COURSES IN COMMERCE AND ADMINISTRATION

These Courses, leading to the degree of Bachelor of Commerce, were established in 1919 to assist in meeting the need which exists in Canada of more systematic training for business and public service.

General Business Course

First Year

English 1	
French 1	
<i>or German A or 1</i>	
Mathematics 1	
Science (one course)	
One other general course which must be a language or a science	

Second Year

English 2	
French 2	
<i>or German 1 or 2</i>	
<i>or Spanish 1 or 2</i>	
<i>or Mathematics 2</i>	
Economics 4	
Politics 2	
<i>or History 1 or 3</i>	
Commerce 63	

Third Year

One additional course in French	
<i>or in German</i>	
<i>or in Spanish</i>	
<i>or in Mathematics</i>	
Commerce 60	
†Commerce 64	
†Economics 10	
Economics 12	

Fourth Year

Economics 11a	
Commerce 52	
Commerce 54	
Commerce 59 (Thesis)	
*One and a half courses, in Economics, Commerce or Mathematics 7b.	

*Options selected must be approved by the Director.

*Mathematics 7b may be offered as an optional half-course.

†Students who have already taken Economics 1 and Economics 23 will not be required to take these courses.

The Courses in Banking established in 1914 by Queen's University in co-operation with the Canadian Bankers' Association will hereafter be continued as part of the Courses in Commerce and Administration.

For further particulars consult the CALENDAR OF THE SCHOOL OF COMMERCE AND ADMINISTRATION, copies of which may be obtained from the Registrar.

COMBINED COURSE IN ARTS AND APPLIED SCIENCE

A Course leading to the Degrees of B.A. and B.Sc. in seven years

Students taking this Course are required to have Arts Matriculation. They will pay full Arts fees for the first three years. In the fourth and fifth years they will register in both Arts and Applied Science but will pay fees in Applied Science only. They will register in the sixth and seventh years in the Faculty of Applied Science and will pay fees in the Faculty of Applied Science.

The Arts regulation in regard to back classes will apply for the first four years, (see regulation 15, page 76 of the Arts calendar). Students with back classes in Arts will not be permitted to make up these classes while they are registered in the Faculty of Applied Science.

The courses must be taken in the order in which they are outlined in the calendar.

The degree of Bachelor of Arts will be conferred on candidates who complete five years' work as outlined below, with a minimum standing of fifty per cent. and sixty-two per cent. in half the classes.

First Year—English 1

French 1 or *German 1 or *Greek 1 or Latin 1

Mathematics 1

Physics 1

Chemistry 1

*Students who have not matriculated in German or Greek will have to take German A or Greek A before registering in German 1 or Greek 1. In such cases the A course will not count towards a degree.

Second Year—English 2

One course not already offered, to be selected from
French 1, 2, German 1, 2, Greek 1, 2, Latin 1, 2

A course in History or Economics or Politics

Mathematics I (Applied Science)

Physics II (Applied Science)

Third Year—Three courses in Arts to be selected from courses which will not be covered later in Applied Science

- Chemistry I (Applied Science)
- Mathematics III (Applied Science)
- Mathematics IV (Applied Science)

Fourth Year—Philosophy 1 or 2

Two courses in Arts to be selected from courses which will not be covered later in Applied Science

- Mathematics II (Applied Science)
- Physics I (Applied Science)
- Drawing (Applied Science)
- Surveying (Applied Science)
- Projection (Applied Science)

Fifth Year—The regular second year Science programme. The work of this year includes courses in Mathematics, Physics and Chemistry which will be counted towards a degree in Arts.

Sixth and Seventh Years

The sixth and seventh years are the same as the third and fourth years of the Course leading to the degree of Bachelor of Science, as outlined in the calendar of the Faculty of Applied Science.

COMBINED COURSE IN ARTS AND THEOLOGY

A Course Leading to the Degree of B.A. and the Testamur in Theology in Six Years

Queen's University and Queen's Theological College join in offering a Combined Course in Arts and Theology. The complete Course covers six years. The first, second and third years are entirely within the Faculty of Arts. Candidates must be fully qualified for admission to the Faculty of Arts. The fourth year consists of one Arts class, for which a fee of \$40 is charged, and of the first year in Theology. The fifth and sixth years of the Combined Course are the second and third years in Theology.

The degree of Bachelor of Arts is awarded at the end of the fourth year to candidates who have passed in all their subjects and made Grade B in at least ten of the classes offered for the B.A. degree. The testamur in Theology is granted after the successful completion of the sixth year. Additional courses in Theology equivalent to at least one

year's further study are required to qualify for the degree of Bachelor of Divinity. The subjects covered are given below:

<i>First Year</i>	<i>Fourth Year</i>
1. English 1	1. An Arts course
2. Greek A	2. Church History
3. Latin 1 or Mathematics 1	3. Systematic Theology
4. Option	4. O. T. Criticism
5. Science	5. N. T. Criticism
	6. Practical Theology and Public Speaking
<i>Second Year</i>	<i>Fifth Year</i>
1. English 2	1. Church History
2. Greek 1	2. Systematic Theology
3. Hebrew 1	3. O. T. Criticism
4. Option	4. N. T. Criticism
5. Philosophy 1 or 2	5. Practical Theology
<i>Third Year</i>	<i>Sixth Year</i>
1. Option	1. Church History
2.*Greek 2	2. Systematic Theology
3. Hebrew 2	3. O. T. Criticism
4. Option	4. N. T. Criticism
5. Option	5. Practical Theology

Students who have Matriculation in Greek will take Greek 1 and 2 in the first two years, and a freely chosen class in place of Greek 2 in the third year.

In choosing options students must plan to complete three courses in each of two subjects by the end of the fourth year.

*N.B. Students on the Combined Course in Arts and Theology who entered with Honour Matriculation without standing in Greek, may offer an additional course in Philosophy in place of Greek 2.

DETAILS OF COURSES OF INSTRUCTION

CLASSICS

PROFESSOR OF CLASSICS—H. L. Tracy, B.A., Ph.D.

ASSOCIATE PROFESSOR OF GREEK AND ROMAN HISTORY—L. E. Law, M.A.
(on leave of absence)†

ASSISTANT PROFESSORS OF CLASSICS—Mary L. Macdonnell, M.A.
A. A. Day, M.A., Ph.D.
(on leave of absence)*

INSTRUCTOR IN CLASSICS—D. M. Shepherd, M.A.

CLASSICAL LITERATURE

CLASSICAL LITERATURE 1.

A general course open to those who wish to study in English translations the literature of Greece and Rome.

Prescribed texts:

1. In the Modern Library: Homer, Vergil.
2. In the Everyman series: Aeschylus, Sophocles, Euripides (vol. 2 only), Aristophanes (*The Acharnians, etc.*).

Reference books:

1. Mythology: Bianchi, *The Mythology of Greece and Rome*; Bulfinch, *Mythology*. 2. Drama: Aristophanes, (*The Frogs, etc.*, Everyman); Plautus (Loeb, vol. 2), Terence (Loeb). 3. Satire: Herodes, Horace, Juvenal, (Loeb). 4. Pastoral: *Theocritus, Bion, and Moschus* (Golden Treasury Series). 5. Biography: *Socratic Discourses* (Everyman); Plutarch, *Lives* (Everyman, vol. 3); Suetonius (Loeb). 6. Literary Criticism: Horace, *Satires, etc.* (Loeb); Aristotle *on the Art of Poetry*, Cooper (Harcourt, Brace and Co.). 7. General: *History of Ancient Greek Literature*, Murray; *Latin Literature*, Mackail.

Reference books will be made available to extramural students through the University Library.

Tuesday, Thursday, and Saturday at 9.
Professor Tracy.

For information in regard to Scholarships, see p. 54.

†Secretary, Wingfield Military Hospital, Oxford, England.

*Captain, Army Personnel Selection Service.

CLASSICAL LITERATURE 20.

An advanced seminar course, on topics similar to those prescribed for Classical Literature 1, designed primarily for senior and graduate students in the departments of language and literature. For details the department of Classics should be consulted.

Professor Tracy.

LATIN LANGUAGE AND LITERATURE

GENERAL NOTICE

For the Pass classes, Lewis' *Latin Dictionary for Schools* (Oxford University Press) is recommended, or Lewis' *Elementary Latin Dictionary* (Oxford University Press). Honours students must provide themselves with Lewis and Short's *Latin Dictionary* (Oxford University Press), and Allen and Greenough's *New Latin Grammar* (Ginn and Co.).

REGULATIONS AND ANNOUNCEMENTS

1. Latin 1 is prerequisite to Latin 2, and Latin 2 to all other courses in Latin.
2. A student taking Latin as one of the main subjects on a Pass Course will take either (A) Latin 1, 2, 10 or 11, or (B) courses in Classical Civilization, three of Classical Literature 1, Greek and Roman History 4, 51, 52, 53, History 12.

3. For Honours in Latin, a student must take:

(a) Twelve courses for Major as follows:

Latin 1, 2, 10, 11, 15, 21 or Greek and Roman History 52, and Greek and Roman History 51, with two supporting courses: when Greek is the Minor, supporting courses will be Greek 10 and Greek and Roman History 52 (if not already chosen) or 53; when English is the Minor, supporting courses will be two of Greek and Roman History 53, an Honours course in History, and French 1 or German 1; when French is the Minor, supporting courses will be two of Greek and Roman History 53, an Honours course in History, and an Honours course in English. Latin 2 and 10 (or 11) should be taken in the same session.

Three Reading courses: when Greek is the Minor, any three; otherwise, Classics R 1, R 2, R 3. Classics R 1 should be taken first, and as early as possible.

(b) Five courses for Minor in Greek, French, English or Philosophy.

(c) Six compulsory general courses to complete the work for degree, as follows (it is recommended that Greek and Roman History 4 be taken as a free option):

With Minor in Greek or French: English 1, 2, Philosophy 1, one science, two free options.

With Minor in English: French 1 or German 1 or Greek 1, Philosophy 1, one science, three free options.

With Minor in Philosophy: English 1, 2, French 1 or German 1 or Greek 1, one science, two free options.

(d) Two general examinations in the Major subject.

(e) A Minor in Latin will normally consist of Latin 1, 2, 10 or 11, 15, and 21.

4. Honours students will continue throughout their course the study of morphology, historical grammar, syntax and composition. These are part of the prescription for Latin 10, 11, 15, 21. (As Latin 10 and 11 are given in alternate years, an honours student will take syntax in whichever of these two courses he takes first.)

5. *High School Specialist Certificates in Classics, Latin and English, Latin and French.*

Candidates for admission to the Qualifying Examinations for the Specialist Course in Classics at the Ontario College of Education will take the regular Honours Degree Course in Latin and Greek.

Candidates for admission to the Qualifying Examinations for the Specialist Courses in Latin and English, or Latin and French at the Ontario College of Education must take for degree:

Seven lecture courses in Latin—1, 2, 10, 11, Greek and Roman History 4, two of Latin 15, 21, Greek and Roman History 51.

*Seven lecture courses in English or in French, Latin Reading courses 1 and 2 or 5, and a Reading course in English, or in French, or

Latin Reading course 1, and two Reading courses in English, or in French,

Six general courses as prescribed under 3(c) for Major in Latin with Minor in English and French respectively.

One general examination in each of Latin and English, or Latin and French.

*Details of courses in English and French are given on pages 106 and 116 respectively.

6. For information in regard to Scholarships in Latin see page 54.

COURSES OF INSTRUCTION

LATIN 1. Translation and Interpretation of Prescribed Texts, Sight Translation, Prose Composition.

Texts:

Latin Prose and Poetry, Bonney and Niddrie (Montreal, Ginn and Company); *Latin Prose Composition*, Tracy and Law (Clarke, Irwin and Co.).

A tutorial period will be given for the benefit of students who desire extra assistance.

Monday, Wednesday, and Friday at 10.
Professor Macdonnell.

LATIN 2. Translation and Interpretation of Prescribed Texts, Sight Translation, Prose Composition.

Texts:

Cicero's Correspondence, Irvine (Cambridge University Press); *Cicero, Pro Archia*, Reid (Pitt Press); *Oxford Book of Latin Verse* (School edition: Oxford University Press).

Exercises in Latin prose composition will be assigned. Extramural students should supply themselves with the *Classical Dictionary* in the Everyman series (J. M. Dent), and *Roman Literature*, Wilkins (Literature Primers: Macmillan).

(The prescription of texts for 1944-5 is subject to change.)

Tuesday, Thursday, and Saturday at 11.
Professor Tracy.

LATIN 10. LYRIC POETRY, LETTERS, PASTORAL POETRY.

Texts:

Catullus, Merrill (Ginn and Co.); Horace, *The Odes and Epodes*, Shorey and Laing (B. H. Sanborn and Co.); Pliny, *Select Letters*, Prichard and Bernard (Oxford University Press); Vergil, *Eclogues*; *P. Vergili Maronis Opera*, Sidgwick (Cambridge University Press).

(Not given in 1943-4).

LATIN 11. COMEDY, SATIRE.

Texts:

Plautus, *Mostellaria*, Fay (Allyn and Bacon); Terence, *The Comedies of Terence*, Ashmore (Oxford University Press); Juvenal, *Satires*, Duff (Cambridge University Press); Vergil, *Eclogues*; *P. Vergili Maronis Opera*, Sidgwick (Cambridge University Press).

Tuesday, Thursday, and Saturday at 10.

Note: Instead of Vergil, Honours students will have one hour each week in syntax, unless they have already had syntax in Latin 10. (See p. 97, regulation 4.)

LATIN 15. A BIOGRAPHICAL STUDY OF CICERO; HORACE, SATIRES AND EPISTLES.

Texts:

Cicero, *Selected Letters*, Abbott (Ginn and Co.); Cicero, *Pro Murena*, Heitland (Pitt Press series); Cicero, *De Natura Deorum*, Plasberg (Teubner); Horace, *Satires*, Palmer (Macmillan), Horace, *Epistles*, Wilkins (Macmillan).
(Not given in 1943-4).

LATIN 21. EPIC AND DIDACTIC POETRY.

Texts:

Vergil, *P. Vergili Maronis Opera*, Sidgwick (Cambridge University Press); Lucretius, Books I and III, Duff (Cambridge University Press).

Hours to be arranged.

GREEK LANGUAGE AND LITERATURE

GENERAL NOTICE

Liddell and Scott's *Greek Dictionary* (abridged edition) is recommended. A *Greek Grammar*, preferably that of Goodwin and Gulick, or Smyth, is necessary.

REGULATIONS AND ANNOUNCEMENTS

1. Greek A may be counted towards a degree under conditions specified in sections 17 and 18, GENERAL REGULATIONS. Under these regulations students who enter the University without matriculation in Greek, and who wish to specialize in this subject, may complete their programme of work in the usual time.

2. Students offering Greek as one of the main subjects on a Pass Course will take either (A) Greek A, 1 and 2, or Greek 1, 2 and one of Greek 10, 11, or (B) Courses in Classical Civilization, three of Classical Literature 1, Greek and Roman History 4, 51, 52, 53, History 12.

3. For Honours in Greek a student must take:

(a) Twelve courses for Major as follows:

Greek 1, 2, 10, 11, 21, 26 or Greek and Roman History 52, and Greek and Roman History 51, with two supporting courses: Latin 10 and Greek and Roman History 53 if Latin is the Minor; Latin 2 and Politics 2 if Philosophy is the Minor. Greek 2 and 10 (or 11) should be taken in the same session.

Three Reading courses: Classics R 1, R 4, and one other. Classics R 1 should be taken first, and as early as possible.

- (b) Five courses for Minor in Latin or Philosophy.
- (c) Six compulsory general courses to complete the work for degree (it is recommended that Greek and Roman History 4 be taken as a free option).
 - With Latin as Minor: English 1, 2, Philosophy 1, one science, two free options.
 - With Philosophy as Minor: English 1, 2, Latin 1, one science, two free options.
- (d) A Minor in Greek will normally consist of Greek 1, 2, 10 or 11, 21, 26 (or Greek and Roman History 51, when Latin is not the Major).

4. For information in regard to Scholarships in Greek see page 54.

5. *High School Specialist Certificate in Classics.*

Candidates for admission to the Qualifying Examinations for the Specialist Course in Classics at the Ontario College of Education will take the regular Honours degree Course in Latin and Greek, or Greek and Latin.

COURSES OF INSTRUCTION

GREEK A. FOR BEGINNERS.

Texts:

A First Greek Course, Donaldson (Cambridge University Press); Greek Grammar, Goodwin and Gulick (Ginn). The object of the course is to prepare students for entering the regular classes in Greek, and to cover an amount of work as nearly as possible the equivalent of Matriculation Greek. The elements of the language will be the chief concern.

Monday at 1. Tuesday, Thursday, and Saturday at 9.
Mr. Shepherd.

GREEK 1.

Texts:

Greek Reader, Freeman and Lowe (Oxford, Clarendon Press). *The Iliad, I-XII*, Leaf and Bayfield (Macmillan); *The Acts of the Apostles*, Westcott and Hort's *New Testament*; *Greek Prose Composition*, Pitman (Macmillan).

Monday, Wednesday, and Friday at 11.
Mr. Shepherd.

GREEK 2.

Texts:

Euripides, *Alcestis*, Earle (Macmillan); Plato, *Apology*, Stock (Oxford, Clarendon Press); *The Acts of the Apostles*, Westcott and Hort's *New Testament*; *Greek Prose Composition*, North and Hillard (Rivingtons).

Hours to be arranged.

Professor Macdonnell.

GREEK 10. EPIC POETRY, ORATORY.

One hour each week will be devoted to the study of morphology, the other two to the reading of Homer and Demosthenes.

Texts:

Demosthenes, *Olynthiacs*, Abbott and Matheson (Oxford, Clarendon Press); Homer, *Odyssey I-XII*, Merry (Oxford, Clarendon Press); *Greek Grammar*, Goodwin and Gulick (Ginn).

Tuesday, Thursday, and Saturday at 9.

GREEK 11. HISTORIANS, COMEDY.

Texts:

Thucydides, Books I and II, Marchant (Macmillan); Aristophanes, *Acharnians*, and *Clouds*, Merry, (Oxford, Clarendon Press).

Lectures will be given on syntax.

(Not given in 1943-4).

GREEK 21. TRAGEDY, BIOGRAPHICAL STUDY OF SOCRATES.

Texts:

Sophocles, *Antigone*, Jebb (Abridged edition; Cambridge, Pitt Press). Readings on Socrates will be prescribed from Plato and Xenophon.

Monday, Wednesday, and Friday at 11.

GREEK 26.

A history of ancient philosophy and the development of modern thought. This course is for the current session the same as Philosophy 10 and will be given by the Department of Philosophy. Philosophy 1 is prerequisite.

READING COURSES IN CLASSICS

Students are urged to cover as much as possible of their Reading Courses during vacation.

R 1. GREEK AND ROMAN LITERATURE, AND TOPICS SELECTED FROM RELIGION, ART, SOCIAL LIFE.

All students must prepare themselves in Greek and Latin Literature. One or two additional topics are to be chosen. A full bibliography cannot be given here. The basic books in the various fields are listed; others will be recommended to students when they have chosen their special topics. Literature: Croiset, *Abridged History of Greek Literature*; Mackail, *Latin Literature*. Religion: Moore, *The Religious Thought of the Greeks*; Bailey, *Phases in the Religion of Ancient Rome*. Art: P. Gardner, *Principles of Greek Art*; Walters, *The Art of the Romans*. Social Life: Glotz, *Ancient Greece at Work*; Warde Fowler, *Social Life at Rome*.

R 2. LIFE AND LETTERS IN THE EARLY EMPIRE.

The following are to be read in the original:

Tacitus, *Annals*, XIII, XIV (Furneaux, Oxford University Press). Martial, *Epigrams*: Books I-VI in *Martial, Select Epigrams*, Bridge and Lake (Oxford, Clarendon Press).

The above are to be supplemented by readings in the following books:

Capes, *The Early Empire*; Dill, *Roman Society from Nero to Marcus Aurelius*.

Special study should be made of such topics as the following: the social orders, freedmen and their influence in society, slavery, the sources of private wealth, clientship, the Christians in Rome. References to these subjects may be found in the books listed below.

Friedländer, *Roman Life and Manners* (translated by Freese); Davis, *The Influence of Wealth in Imperial Rome*; Duff, *Freedmen in the Early Roman Empire*; Rostovtzeff, *Economic and Social History of the Roman Empire*.

Students may make either an exhaustive study of one or two of these topics, or a general survey of the prescribed period.

R 3. CLASSICAL TRAGEDY. Aeschylus, *Agamemnon*; Sophocles, **Oedipus Tyrannus*; Euripides, *Hippolytus*, **Medea*; Seneca, *Oedipus*, *Phaedra*; Corneille, *Médée* or *Oedipe*; Racine, *Andromaque*, *Phèdre*; Voltaire, *Oedipe*, *Oreste*; Dryden, *Oedipus*.

Sheppard, *Greek Tragedy*; Murray, *Ancient Greek Literature*; Lucas, *Seneca and Elizabethan Tragedy*; Wright, *French Classicism*; de Jullleville, *Le Théâtre en France*; Faguet, *Propos de Théâtre*, essays on Racine in vols. 1 and 3; Vaughan, *Types of*

Tragic Drama; Lucas, *Tragedy*; Nettleton, *English Drama of the Restoration and Eighteenth Century*; *Cambridge History of English Literature*, vol. VIII, the relevant chapters.

Classics students will read the plays marked * in Greek. Latin-French students will select for reading in the original any two of the French plays listed above. The remainder, in each case, will be studied in translations.

R 4. THE ODYSSEY OF HOMER.

Homer, *Odyssey*, ed. W. W. Merry (2 vols., Oxford, Clarendon Press); D. B. Munro, *A Grammar of the Homeric Dialect*; Victor Bérard, *Did Homer Live?*; R. C. Jebb, *Homer: An Introduction to the Iliad and the Odyssey*; W. J. Woodhouse, *The Composition of Homer's Odyssey*; Walter Leaf, *Homer and History*; T. D. Seymour, *Life in the Homeric Age*; Andrew Lang, *Homer and the Epic*.

R 5. A syllabus of reading will be assigned to students who wish to study some particular field, such as: an ancient historian (in the original), a period of Greek History, a period of Roman History, etc.

GREEK AND ROMAN HISTORY

REGULATIONS AND ANNOUNCEMENTS

The courses listed below, together with History 1 or Politics 2, may be taken as a Minor with Majors in History, Politics, French, etc. The Minor will then consist of History 1 (or Politics 2), Greek and Roman History 4, 51, 52, 53. Students may choose either History 1 or Politics 2 as they wish, but if History 1 is taken in the Major, Politics 2 must be taken here.

In these courses the comparative method will be largely used. Stress will be laid on similarities and differences between the ancient order and the modern, particularly in respect of social institutions.

For information in regard to Scholarships, see p. 54.

COURSES OF INSTRUCTION

GREEK AND ROMAN HISTORY 4. A Survey of Greek and Roman Society. An introductory account of Greek and Roman political and social development; the period from the rise of the Greek city-states to the death of Constantine will be studied and the student will be expected to pay particular attention to those aspects of Greek and Roman society which are most important for an appreciation of modern ideas and institutions.

Texts:

Trever, *History of Ancient Civilization*, 2 vols. (Harcourt, Brace);
Thucydides, *History of the Peloponnesian War* (Everyman).

Certain other works dealing with special problems or aspects of Greek and Roman History will be available to extramural students through the lending facilities of the University Library.

Tuesday, Thursday, and Saturday at 11.

Mr. Shepherd.

GREEK AND ROMAN HISTORY 51. Comparative Social Institutions.

Lectures, weekly essays and discussions on questions relating to the structure of society. The scope of the course is not confined to Greco-Roman civilization.

**(Not offered in 1943-4).*

GREEK AND ROMAN HISTORY 52. Greek Social Philosophy.

Discussion of essays on ethical and political theory with special reference to Plato and Aristotle.

**(Not offered in 1943-4).*

GREEK AND ROMAN HISTORY 53. Comparative Forms of Government.

A comparative study of some ancient and modern forms of autocracy and democracy. The course will be based on weekly essays and discussions.

**(Not offered in 1943-4).*

Graduate Courses

Lecture courses and directed special studies will be offered in Latin, Greek, or Greek and Roman History as needed.

**These courses have been temporarily withdrawn owing to the absence of teaching personnel on war service. Suitable provision will be made for students of whom these courses are required.*

ENGLISH LANGUAGE AND LITERATURE

PROFESSOR—George Herbert Clarke, M.A., D.Litt., F.R.S.C.,
F.R.S.L.

PROFESSOR—James Alexander Roy, M.A.

PROFESSOR—Henry Alexander, M.A.

ASSOCIATE PROFESSOR—Wilhelmina Gordon, M.A.

ASSISTANT PROFESSOR—Charles J. Vincent, M.A., Ph.D.

LECTURER—William Angus, M.A., Ph.D.

REGULATIONS AND ANNOUNCEMENTS

1. English 1 and 2 are required of all candidates for a degree in Arts. English 1 is prerequisite to English 2. English 2 is prerequisite to all courses numbered higher except English 10, which candidates for honours in English should take during the same year as English 2.

2. English 3a, 3b and 4 are open to students offering English as one of the main subjects for a Pass degree. Those taking only three courses in Pass English may select either English 3a and 3b or English 4. Those taking four courses should register in English 3a and 3b first. Pass students are not ordinarily admitted to honours courses, but exceptions may be made in certain cases.

3. For Honours in English a student must take:

(a) Twelve courses for the Major, as follows:

Eight courses in English: 1, 2, 10, 14a, 14b, 18, 16b, 17a or 19a, 20, 22, with one supporting course, Latin 2.

Three Reading courses in English: R 1, R 2 (or R 3), R 4.

(b) Five courses for the Minor, in History, French, Latin, Greek, German, Philosophy, or Spanish. (Note: When the Minor is Latin, the supporting course for the Major normally will be French 2.)

(c) Six compulsory general courses to complete the work for a degree:

With History as Minor: Latin 1, French 1 or Greek 1 or German 1, Philosophy 1, one science, two free options. (Classical Literature 1 and French 2 or 4 are recommended). With French as Minor: Latin 1, Philosophy 1, one science, three free options. (Classical Literature 1, History 1 or 5 and German 1 are recommended).

With Latin as Minor: French 1 or Greek 1 or German 1, Philosophy 1, one science, three free options. (French 2 or 4 and History 1 or 5 are recommended).

With Greek as Minor: Latin 1, Philosophy 1, one science, three free options. (History 1 or 5 and French 1 or German 1 are recommended).

With German as Minor: Latin 1, Philosophy 1, one science, three free options. (Classical Literature 1, History 1 or 5 and French 1 are recommended).

With Philosophy as Minor: Latin 1, French 1 or German 1 or Greek 1, one science, three free options. (History 1 or 5 and French 2 or 4 are recommended).

(d) Two general examinations in the Major subject.

4. A Minor in English will consist normally of English 1, 2, 10, 18, and 20.

5. Students offering English on the General Honours course will take the minor as prescribed in 4, together with either R 1 or R 4.

6. Except by special permission of the Department, students making English their major subject in Honours must take the courses in the following order: 2, 10; 14a, 14b, 18 and R 1; 16b, 17a (or 19a), R 2 (or R 3); 20, 22, R 4.

7. (a) *High School Specialist Certificate in English.*

Candidates for admission to the Qualifying Examinations for the Specialist Course in English at the Ontario College of Education will take the specialized Honours degree Course in English with a Minor in Social History as follows:

History 1, 3, 16, and two of 17, 18a and 19b, 24, 28a and 29b. French 1, 2 or German 1, 2 must be included in the general courses.

(b) *High School Specialist Certificate in English and Latin, English and French.*

Candidates for admission to the Qualifying Examinations for the Specialist Courses in English and Latin, or English and French at the Ontario College of Education must take for a degree:

Seven lecture courses in English—1, 2, 10, 14a, 14b, 18, 20, 22.

*Seven lecture courses in Latin or in French.

English Reading courses 2 and 4, and a Reading course in Latin, or in French, or,

English Reading course 2 or 4, and two Reading courses in Latin, or in French.

Six compulsory general courses to complete the work for a degree:

With English and Latin: French 1, Philosophy 1, a science, three free options.

With English and French: Latin 1, 2, Philosophy 1, a science, two free options.

One general examination in each of English and Latin, or English and French.

*Details of courses in Latin and French are given on pages 97 and 116 respectively.

8. Provision will be made in English 20 and 22 for special work in Advanced Composition.

9. For information concerning Scholarships in English see page 55.

COURSES OF INSTRUCTION (Pass)

Note: Students in each of the following courses will be furnished with a list of recommended reference books in addition to those required.

ENGLISH 1. PROSE COMPOSITION, WITH LITERARY BACKGROUND.

A practical course in Prose Composition, with parallel reading.

Prescribed texts:

Foerster and Steadman, *Writing and Thinking* (Boston: Houghton Mifflin; Toronto: Thomas Allen); Dorothy Brewster (ed.), *A Book of Modern Short Stories*. (Toronto: Macmillan); H. L. Tinker (ed.), *Essays—Yesterday and To-Day*. (Toronto: Macmillan); Lytton Strachey, *Florence Nightingale*. (Toronto: Macmillan).

During the session at least one novel and one play will be prescribed.

In addition to the foregoing each student must possess a satisfactory English dictionary, preferably the *Concise Oxford Dictionary* (Toronto: Oxford University Press).

Monday, Wednesday, Friday, at 10.

Tuesday, Thursday, Saturday, at 9.

ENGLISH 2. A GENERAL INTRODUCTION TO ENGLISH LITERATURE.

This course provides instruction in the history of English Literature. Emphasis is placed also on composition.

Prescribed texts:

Woods, Watt and Anderson, *The Literature of England* (two vols.) (Toronto: W. J. Gage.)

For reference:

Moody and Lovett, *A History of English Literature* (New York: Charles Scribner's Sons).

Sections A and B. Monday, Wednesday, Friday, at 9.

Section C. Monday, Wednesday, Friday, at 10.

Section D. Tuesday, Thursday, Saturday, at 11.

ENGLISH 3a. ADVANCED PASS ENGLISH.

A study of English prose fiction as far as the twentieth century. Novels by the following authors will be read: Bunyan, Defoe, Goldsmith, Jane Austen, Scott, Dickens, Thackeray, Trollope, Stevenson, and Hardy. Other novels and books of reference will be prescribed for private reading. These books, in inexpensive editions, should be bought and read, so far as possible, before the class opens. Lists may be secured from the Department.

Monday, Wednesday, Friday, at 11.

Professor Gordon.

ENGLISH 3b. BRITISH DRAMA TO THE END OF THE EIGHTEENTH CENTURY.

Prescribed text:

Matthews and Lieder, *Chief British Dramatists* (Boston: Houghton Mifflin Company; Toronto: Thomas Allen.)

Additional plays and reference works will be assigned.

Dr. Angus.

ENGLISH 4. ADVANCED PASS ENGLISH.

A study of modern English drama, fiction and poetry.

Prescribed texts:

Watson and Pressey, *English and Irish Plays*, Vols. I and II in Contemporary Drama Series (New York: Charles Scribner's Sons); Untermeyer, *Modern British Poetry* (New York: Harcourt, Brace).

Seven novels selected from the works of Conrad, Butler, Wells, Galsworthy, Lawrence, Joyce, Virginia Woolf, and Huxley.

Other reading, of representative plays and of reference works, will also be prescribed.

Monday, Wednesday, Friday, at 11.

Dr. Angus (first term) and Professor Vincent (second term).

COURSES OF INSTRUCTION (Honours)

ENGLISH 10. AN INTRODUCTION TO HONOURS IN ENGLISH.

To be taken during the same year as English 2. A general study of the history of the English language, of verse-forms, and of the fundamental principles of literary criticism.

Prescribed texts:

Henry Alexander, *The Story of Our Language* (Toronto: Thomas Nelson); Cowardin and More, *The Study of English Literature* (Toronto: Clarke, Irwin; New York: Henry Holt); B. J. Pendlebury (ed.), *English Lyrical Types* (Toronto: The Ryerson Press); C. E. Vaughan, *English Literary Criticism*, (London and Toronto: Blackie).

Tuesday, Thursday, Saturday, at 10.

Professor Alexander (first term) and Professor Clarke (second term).

ENGLISH 14a. OLD ENGLISH.

Prescribed text:

Krapp and Kennedy, *An Anglo-Saxon Reader* (Toronto: Clarke, Irwin; New York: Henry Holt).

Monday, Wednesday, Friday, at 4.

Professor Alexander.

ENGLISH 14b. MIDDLE ENGLISH.

A study of the transition writers and of Chaucer's development, based on the following works: *The Romaunt of the Rose*, *The Book of the Duchesse*, *The Parlement of Foules*, *Troilus and Criseyde*, *The House of Fame*, *The Prologue to the Legend of Good Women*, *The Canterbury Tales*.

Prescribed texts:

Chaucer's Complete Works, edited by F. N. Robinson (Boston: Houghton Mifflin); *The Nun's Priest's Tale*, edited by K. Sisam (Toronto: Oxford University Press); Grace Hadow, *Chaucer and His Times*, Home University Library (Toronto: Clarke, Irwin; New York: Henry Holt); R. Morris, *Specimens of Early English*, Vol. I (Toronto: Oxford University Press).

Monday, Wednesday, Friday, at 4.

Professor Alexander.

ENGLISH 18. SHAKESPEARE.

A review of the life and environment of Shakespeare, and of his development as a dramatist, with lectures on the lives and works of his chief forerunners and contemporaries.

Prescribed texts:

J. W. MacKail, *The Approach to Shakespeare* (Toronto: Oxford University Press); J. Q. Adams, *The Life of William Shakespeare*, Student's edition, (Boston: Houghton Mifflin); *The Complete Works of Shakespeare Gathered into One Volume* (Oxford: Basil Blackwell, for the Shakespeare Head Press);

Toronto: Oxford University Press); A. C. Bradley, *Shakespearean Tragedy* (London and Toronto: Macmillan).

Monday, Wednesday, Friday, at 10.

Professor Clarke.

ENGLISH 16b. SPENSER AND MILTON.

This course is concerned chiefly with the poetry of Spenser and of Milton, but it includes also a study of the Elizabethan and Seventeenth Century lyric and some prose criticism.

Prescribed texts:

Edmund Spenser, *Poems* (Toronto: Oxford University Press); Philip Sidney, *An Apologie for Poetrie* (Toronto: Oxford University Press); John Milton, *Poems* (Toronto: Oxford University Press; John Milton, *Areopagitica* (Toronto: (Oxford University Press); any anthology of English verse including Elizabethan and seventeenth century lyrics.

Tuesday, Thursday, Saturday, at 11.

Professor Gordon.

***ENGLISH 17a. THE CLASSICAL AGE (Non-dramatic Literature).**

English non-dramatic literature from 1660 to 1798. This course deals primarily with the critical theories of Dryden, Pope, Johnson and other neo-classicists, and considers also the work of the Pre-Romantics.

Prescribed texts:

Odell Shepard and Paul Spencer Wood (eds.), *English Prose and Poetry, 1660-1800*. (Boston: Houghton Mifflin); Dryden, *Poems*; Pope, *Poems* (Globe editions). (London and Toronto: Macmillan).

Reference works:

English Critical Essays of the Seventeenth and Eighteenth Centuries (Toronto: Oxford University Press); Matthew Arnold, (ed.), *Johnson's Lives of the Poets* (London and Toronto: Macmillan).

Tuesday, Thursday, Saturday, at 11.

Professor Roy.

***ENGLISH 19a. RESTORATION AND EIGHTEENTH CENTURY DRAMA.**

Prescribed text:

Nettleton and Case, *British Dramatists from Dryden to Sheridan* (Boston: Houghton Mifflin).

Reference works:

G. H. Nettleton, *English Drama of the Restoration and Eighteenth Century* (London and Toronto: Macmillan); Allardyce Nicoll, *History of Restoration Drama* (Cambridge University Press); Allardyce Nicoll, *History of Early Eighteenth Century Drama* (Cambridge University Press).

Tuesday, Thursday, Saturday, at 11.

Professor Roy.

*Courses 17a and 19a are offered in alternate years. For 1943-1944 course 19a is offered.

ENGLISH 20. ENGLISH LITERATURE FROM 1798 TO 1832.

Students are expected to be familiar with the poetry of Blake, Burns, Crabbe, Coleridge, Wordsworth, Scott and Southey, and of Byron, Shelley and Keats; Lamb, *Essays of Elia*; Hazlitt, *The Spirit of the Age* and *Table Talk*; Wordsworth, *Preface to Lyrical Ballads*; Coleridge, *Biographia Literaria*, Chaps. 14-22; Dorothy Wordsworth, *Journals*; Southey's *The Doctor*; Scott's *Journal*; Hunt's *Autobiography*; Moore's *Diary*; Letters of Wordsworth, Lamb, Byron, Shelley, Keats.

Prescribed texts:

George B. Woods, *English Poetry and Prose of the Romantic Movement* (Chicago: Scott, Foresman); William Wordsworth, *Poems* (Toronto: Oxford University Press); George Gordon Byron, *Poems* (Toronto: Oxford University Press); *The Complete Poems of Keats and Shelley* (Modern Library), (Toronto: Macmillan). Any editions of the Poetical Works of Coleridge and Scott.

Tuesday, Thursday, Saturday, at 9.

Professor Roy.

ENGLISH 22. VICTORIAN AND POST-VICTORIAN LITERATURE.

Prescribed texts:

J. W. Cunliffe and M. B. Pickel, *Century Readings in Victorian Prose* (New York: D. Appleton-Century); George B. Woods, *Poetry of the Victorian Period* (Chicago: Scott, Foresman). Any editions of the Poetical Works of Tennyson, Clough, Arnold, Browning, Swinburne and Hardy.

Monday, Wednesday, Friday, at 11.

Professor Clarke.

READING COURSES IN ENGLISH:

R. 1. The English Novel.

Students should read the following books, preferably in chronological order:

- (1) Bunyan, *The Pilgrim's Progress*; Addison, the *Spectator* papers on Sir Roger de Coverley; Defoe, *Robinson Crusoe*; Richardson, *Clarissa Harlowe*, (abridged version); Goldsmith, *The Vicar of Wakefield*; Scott, *The Antiquary*, or *The Heart of Midlothian*; Dickens, *David Copperfield*.
- (2) One novel by each of the following writers: Fielding (or Smollett), Jane Austen, Thackeray, Charlotte Brontë.
- (3) Four of the following novels: Trollope, *Barchester Towers*; George Eliot, *Adam Bede*; Hardy, *The Return of the Native*, or *Tess of the D'Urbervilles*; Meredith, *The Egoist*, or *Diana of the Crossways*; Stevenson, *Kidnapped*, or *Weir of Hermiston*; Butler, *The Way of All Flesh*.
- (4) Three of the following novels: Bennett, *The Old Wives' Tale*; Galsworthy, *The Forsyte Saga*; Conrad, *The Rover*; Virginia Woolf, *Mrs. Dalloway*.
- (5) Two short stories by each of the following authors: Stevenson, Kipling, Katherine Mansfield.

The following books are suggested for consultation: W. A. Raleigh, *The English Novel* (London: John Murray); Anthony Trollope, *An Autobiography* (World's Classics); A. Chevalley, *The Modern English Novel*, translated by B. R. Redman (New York, Alfred A. Knopf); J. T. Frederick, *A Handbook of Short Story Writing* (New York: Alfred A. Knopf).

Professor Gordon.

*R 2. Modern English Criticism.

Students will be expected to read the following works: Wordsworth, *Prefaces*, (the 1800 *Preface* to be compared with Dante's *De Vulgari Eloquio*); Coleridge, *Lectures on Shakespeare*, *Biographia Literaria*, Chaps. 14-22; Lamb, *Specimens of English Dramatic Poets*; Peacock, *The Four Ages of Poetry*; Shelley, *A Defence of Poetry*; Hazlitt, *The English Poets*, *The Spirit of the Age*; Carlyle, *Essay on Scott*, *Essay on Burns*; Campbell, *Lectures on Poetry*; Matthew Arnold, *Essays in Criticism*, *Culture and Anarchy*; Landor, *Imaginary Conversations*; Pater, *Appreciations*. The student must also be familiar with the critical theories of Wilson ("Christopher North"), De Quincey, Lockhart, Hartley Coleridge, Maginn, Thackeray, Macaulay, Newman and Ruskin.

Prescribed texts:—

English Critical Essays of the Nineteenth Century (Toronto: Oxford University Press); *English Critical Essays of the Twentieth Century* (Toronto: Oxford University Press); Smith and Parks, *The Great Critics* (New York: W. W. Norton).

Reference works (these books are suggested for consultation only): T. S. Omond, *The Romantic Triumph*; G. Saintsbury, *The History of Criticism, The Later Nineteenth Century*; Walter Graham, *English Literary Periodicals* (Toronto: Thomas Nelson and Sons); R. J. White, *The Political Thought of Samuel Taylor Coleridge*; H. Walker, *The Literature of the Victorian Era*; Louis Cazamian, *Criticism in the Making*; F. R. Leavis (ed.), *Determinations*; Herbert Read, *Reason and Romanticism*; Edwin B. Burgum, *The New Criticism*; *The Cambridge History of English Literature*.

Professor Roy.

*R 3. Modern British Drama.

This reading course surveys the field of nineteenth and twentieth century drama in England and in Europe. Introductory: Knowles, Jerrold, Bulwer-Lytton, Boucicault, Taylor. The Victorian Transition: Robertson, Gilbert, Jones, Pinero, Wilde, Shaw, Barrie, Galsworthy, Granville-Barker, Hankin. The Irish Drama; Yeats, Lady Gregory, Synge, Robinson, Ervine, Dunsany; Houghton and other Realists: Elizabeth Baker, Githa Sowerby. Poetic Dramatists: Masefield, Drinkwater, Flecker, Bottomley. Post-war drama: Milne, Coward, O'Casey. Tendencies in Contemporary Drama.

Prescribed texts:—

S. M. Tucker, *Modern American and British Plays*. (New York: Harpers); Watson and Pressey, *Contemporary Drama: English and Irish* (two vols.), (New York: Charles Scribner's Sons); C. H. Whitman, *Representative Modern Dramas*. (Toronto: Macmillan).

Reference works (these books are suggested for consultation only):

A. E. Morgan, *Tendencies of Modern English Drama*; M. J. Moses, *Representative British Dramas, Victorian and Modern*; A. Nicoll, *An Introduction to Dramatic Theory*, *British Drama, The English Theatre*; Gordon Craig, *The Art of the Theatre*; H. Granville-Barker, *The Study of Drama, On Dramatic Method*; S. Cheney, *The Theatre*; D. C. Stuart, *The Development of Dramatic Art*; Canfield, *Plays of the Irish Renaissance and Plays of a Changing Ireland*; S. Gwynn, *Irish Litera-*

ture and Drama; T. H. Dickinson, *An Outline of Contemporary Drama*; *The Cambridge History of English Literature*.

Professor Roy.

*R 2 and R 3 are alternating courses. During the session 1943-1944 students will take R 2 and will proceed the following year to R 4. R 4. American and Canadian Literatures.

Part One

Prescribed texts: W. F. Taylor, *A History of American Letters* (Toronto: W. J. Gage); F. C. Prescott and G. D. Sanders, *An Introduction to American Prose*; *An Introduction to American Poetry* (New York: F. S. Crofts).

Reference works (these books are suggested for consultation only, particularly the first): W. P. Trent and others, *The Cambridge History of American Literature* (New York: G. P. Putnam's Sons); M. C. Tyler, *A History of American Literature during the Colonial Period*, *The Literary History of the American Revolution* (New York: G. P. Putnam's Sons); Barrett Wendell, *A Literary History of America* (New York: Charles Scribner's Sons); Russell Blankenship, *American Literature as an Expression of the National Mind* (New York: Henry Holt); Warfel, Gabriel and Williams, *The American Mind* (New York: The American Book Company); John Macy, *The Spirit of American Literature* (New York: Boni & Liveright); W. C. Brownell, *American Prose Masters* (New York: Charles Scribner's Sons); E. C. Stedman, *Poets of America* (Boston: Houghton Mifflin); Carl Van Doren, *The American Novel* (Toronto: Macmillan).

In addition to the prescribed texts, the student will be expected to read at least eight of the following works: Cooper, *The Last of the Mohicans*; Emerson, *English Traits*; Hawthorne, *The Scarlet Letter*; Holmes, *The Autocrat of the Breakfast Table*; Lowell, *Among My Books*; Melville, *Moby Dick*; Stockton, *Rudder Grange*; Mark Twain, *Huckleberry Finn* or *Personal Recollections of Joan of Arc*; James, *The Bostonians* or *Roderick Hudson*; Cable, *Old Creole Days*; Wharton, *The Age of Innocence* or *The Valley of Decision*; Norris, *The Octopus* or *The Pit*; Cather, *The Shadow of the Rock*; Hergesheimer, *Java Head*; Crane, *The Red Badge of Courage*; Howells, *A Modern Instance*; Page, *In Ole Virginia*; Sherman, *On Contemporary Literature*; Bradford, *American Portraits*.

Part Two

Prescribed texts: R. P. Baker, *A History of English-Canadian Literature to the Confederation* (Boston: Harvard University

Press); A. MacMechan, *Headwaters of Canadian Literature* (Toronto: McClelland & Stewart); E. K. and E. H. Broadus, *A Book of Canadian Prose and Verse*, Revised Edition (Toronto: Macmillan); R. Knister, *Canadian Short Stories* (Toronto: Macmillan); N. Hodgins, *Canadian Essays* (Toronto: Thomas Nelson & Sons); Bliss Carman and Lorne Pierce (eds.), *Our Canadian Literature* (Toronto: The Ryerson Press).

Reference works (these books are suggested for consultation only): Shortt and Doughty, *Canada and Its Provinces* (Vol. XII); W. S. Wallace, *Dictionary of Canadian Biography*; Lorne Pierce, *An Outline of Canadian Literature*; Horning and Burpee, *A Bibliography of Canadian Fiction*; James, *A Bibliography of Canadian Poetry*.

In addition to the prescribed texts, the student will be expected to read representative selections of Canadian prose and poetry, emphasizing especially selections from the chief works of John Richardson, William Kirby, T. C. Haliburton, Gilbert Parker, C. G. D. Roberts, D. C. Scott, A. Lampman, Bliss Carman, Louis Hémon, Marjorie Pickthall, W. H. Drummond, Francis Sherman, E. J. Pratt, Mazo de la Roche, Stephen Leacock.

Professor Clarke.

GRADUATE COURSES

Lecture courses and Directed Special Studies will be prescribed by the Department upon application. (See page 191).

FRENCH

PROFESSOR—P. G. C. Campbell, M.A., Docteur de l'Université de Paris.

PROFESSOR—M. Tirol, O.I.P., L. ès L., Ph.D.

PROFESSOR—W. M. Conacher, B.A., D. ès L.

LECTURER—Glen Shortliffe, M.A., Ph.D.

INSTRUCTOR—Jeanne M. McConnell, Brevet Supérieur, C.A.P.

TUTOR AND WARDEN OF THE FRENCH HOUSE—Margaret Gibb, O.I.P., Docteur de l'Université de Paris.

REGULATIONS AND ANNOUNCEMENTS

1. French 1 is prerequisite to French 2.

2. Students offering French as one of the main subjects on a Pass Course will take 1, 2, 3 or 4. By special permission of the Head of the Department 10 or 12 may be substituted for 3 or 4, or taken as an extra course after 3 or 4.

3. For Honours in French a student must take:

(a) Twelve courses for Major as follows:

Eight courses in French: 1, 2; 10 and 12 in the first year of Honours, 11 and 20(*a* and *b*) in the second year, 21a, 23b and 22(*a* and *b*) in the third year, with one supporting course chosen from Latin 2, Greek and Roman History 4, Classical Literature, English 18. Three Reading courses in French, R1, R2, R3 or R4.

(b) Five courses for Minor in Latin, English, German, Spanish, History, or Greek and Roman History.

(c) Six compulsory general courses to complete the work for degree: With Latin as Minor: English 1, 2, Philosophy 1, one science, two free options.

With German, or Spanish, or History as Minor: English 1, 2, Latin 1, Philosophy 1, one science, one free option.

With English as Minor: Latin 1, Philosophy 1, one science, three free options.

(d) Two general examinations in the Major subject.

4. A Minor in French consists of 1, 2, 10, 11, 21a and 23b.

5. For the General Honours Course the five lecture courses will be 1, 2, 10, 11 and one other.

The Reading Course will be No. 1.

6. All oral examinations must be taken at the University. They are compulsory for French 2, and to complete a Major or Minor in French. Honour groups for conversation and phonetic study will meet at hours to be arranged at the beginning of term. This work is compulsory in each year of Honours. Oral Classes are also offered for students in French 2 proceeding to Honours in French. The textbook for the Honour groups is Bascan, *Manuel pratique de Prononciation* (Dent).

7. *High School Specialist Certificates in Latin and French, English and French, French and German, French and Spanish.*

Candidates for admission to the Qualifying Examinations for the Specialist Courses in Latin and French, English and French, French and German, or French and Spanish at the Ontario College of Education must take for degree:

Seven lecture courses in French—1, 2, 10, 12, 11, 20a, 22(*a* or *b*), 21a, 23b.

*Seven lecture courses in Latin or in English or in German or in Spanish.

French Reading courses 1 and 2 and a Reading course in Latin or in English, or in German, or in Spanish, or

French Reading course 1 and two Reading courses in Latin or in English, or in German, or in Spanish.

Six compulsory general courses to complete the work for degree:
With French and Latin: English 1, 2, Philosophy 1, a science, two free options.

With English and French: Latin 1, 2, Philosophy 1, a science, two free options.

With French and German or Spanish: English 1, 2, Latin 1, 2, Philosophy 1, a science.

One general examination in each of French and Latin, English and French, French and German, or French and Spanish.

*Details of courses in Latin, English, German, and Spanish are given on pages 97, 106, 122, and 129 respectively.

8. For the Sir Wilfrid Laurier Memorial Scholarship of \$80, awarded for proficiency in French conversation, see SCHOLARSHIPS.

9. For information in regard to Scholarships in French see page 57.

COURSES OF INSTRUCTION

FRENCH 1. FIRST YEAR FRENCH.

Hémon, *Maria Chapdelaine* (Macmillan); V. Hugo, *Les Misérables* (Heath); Pagnol, *Topaze* (Heath) *Contes Choisis de Maupassant* (Doran); Barton and Sirich, *Simplified French Review Grammar and Composition* (Crofts).

Duhamel and Minssen, *Primer of French Prose Composition* (Rivingtons)—for Extramural students.

Monday, Wednesday, and Friday at 11.

Tuesday, Thursday, and Saturday at 9 (2 sections)

Professor Conacher, Dr. Shortliffe.

FRENCH 2. SECOND YEAR FRENCH.

Balbaud, *Cette drôle de Guerre* (Oxford Univ. Press); *Short Stories by French Romanticists* (Heath); J. Romains, *Knock ou le Triomphe de la médecine* (Appleton-Century); Bazin, *La Terre qui meurt* (Appleton-Century); *French Poetry* (Dent);—for Extramural students: Duhamel and Minssen, *French Prose Composition for Middle Forms* (Rivingtons).

The oral examination will be held during the term. Students, in order to be credited with this course, must satisfy the oral

requirements at the University, either during the term or at the Summer School.

Monday, Wednesday, and Friday at 10.

Tuesday, Thursday, and Saturday at 10.

Professors Campbell and Tirol, Dr. Shortliffe.

FRENCH 3. THIRD YEAR PASS.

French Poetry (Dent); *Molière, Le Bourgeois Gentilhomme* (Ginn); *Anatole France, Le Livre de mon Ami* (Holt); *Daudet, Lettres de mon Moulin* (Nelson); *Rostand, Cyrano de Bergerac* (Holt); *Ritchie and Moore, Junior Manual of French Composition* (Cambridge Univ. Press).

Monday, Wednesday, and Friday at 10.

Professor Conacher.

FRENCH 4. THIRD YEAR PASS. SURVEY OF FRENCH LITERATURE.

Steinhauer and Walter, Omnibus of French Literature, vols. I and II (Macmillan).

Tuesday, Thursday, and Saturday at 10.

Dr. Shortliffe.

FRENCH 10. INTRODUCTION TO HONOURS.

Balzac, Cinq Scènes de la Comédie Humaine (Heath); *Chateaubriand, Atala, René* (Scott, Foresman); *V. Hugo, Hernani* (edit. Evans), (Thos. Nelson); *Augier et Sandeau, Le Gendre de M. Poirier* (A.B.C.); *Chinard, Scènes de la vie française* (Ginn); *Book of French Verse* (Oxford University Press); *Mansion, A Grammar of Present-Day French* (Harrap); *Mansion, Exercises in French Syntax* (Harrap).

Monday, Wednesday, and Friday at 11.

Professor Campbell.

FRENCH 11. LANGUE FRANÇAISE: XIX^e Siècle.

(Prerequisite, French 10).

Musset, Trois Comédies (Heath); *Renan, Souvenirs d'enfance et de jeunesse* (Nelson); *Guillaumin, La vie d'un simple* (Ginn); *Becque, Les Corbeaux* (Heath); *Bourget, Le Disciple* (Nelson); *Hervieu, La Course du Flambeau* (Heath); *Nineteenth Century French Prose* (Century Co.); *French Poetry of the 19th Century* (Macmillan); *Mansion, A Grammar of Present-Day French* (Harrap); *Mansion, Exercises in French Syntax* (Harrap); *Ritchie and Moore, Manual of French Composition* (Cambridge University Press).

Monday, Wednesday, and Friday at 9.

Professor Tirol.

FRENCH 12. NINETEENTH CENTURY LITERATURE.

Balzac, *Eugénie Grandet* (Heath); Hugo, *Notre-Dame de Paris* (Prentice-Hall); Flaubert, *Trois Contes* (Nelson); Michelet, *Jeanne d'Arc* (Hachette); Zola, *La Débâcle* (Heath); Henning, *French Lyrics of the Nineteenth Century* (Ginn). Further recommended reading.

Tuesday, Thursday, and Saturday at 11.

Professor Conacher.

FRENCH 20a. THE EIGHTEENTH CENTURY.

Lesage, *Turcaret* (Cambridge University Press); Montesquieu, *The Age of Enlightenment* (Crofts); Havens, *Selections from Voltaire* (Appleton-Century); Voltaire, *Candide* (Prentice-Hall); Zaïre (Vaubourdolle); *L'Encyclopédie, Extraits* (Larousse).

Monday, Wednesday, and Friday at 11.

Dr. Shortliffe.

FRENCH 20b. THE EIGHTEENTH CENTURY.

Schinz, *Vie et Oeuvres de Rousseau* (Heath); Rousseau, *Confessions* (Holt). Texts for special study: Rousseau, *Discours sur l'inégalité. Contrat Social. Emile* (Vaughan edition).

For reference: *The Age of Enlightenment* (Crofts).

Monday, Wednesday, and Friday at 11.

Professor Conacher.

FRENCH 21a. LANGUE FRANÇAISE: ÉTUDES CONTEMPORAINES.

Prerequisite, French 11.

Michaut, *XX^e Siècle* (Harper); *Modern French Prose* (Nelson); *Modern French Verse* (Dent); Ringuet, *Trente Arpents* (B. Valiquette); *Representative French Plays* (Copp, Clark); Mansion, *A Grammar of Present-Day French* (Harrap); Mansion, *Exercises in French Syntax* (Harrap).

Tuesday, Thursday, and Saturday at 11.

Professor Tirol.

FRENCH 22a. SEVENTEENTH CENTURY LITERATURE.

Bagley (C. R.), *Introduction to French Literature of Seventeenth Century* (Appleton-Century).

Professor Campbell.

FRENCH 22b. SEVENTEENTH CENTURY DRAMA.

Corneille, *Polyeucte* (Cambridge University Press); Molière, *L'Avare* (Macmillan); Racine, *Bérénice* (Oxford University Press).

A thorough knowledge of *Julius Caesar* will be required.

Hours to be arranged.

Professor Campbell.

FRENCH 23b.

François, *Advanced French Prose Composition* (A. B. C.).
Tuesday, Thursday, and Saturday at 11.
 Dr. Shortliffe.

FRENCH 24. FRENCH CATHEDRALS.

Professor Campbell.

READING COURSES IN FRENCH:

R 1. Outlines of French Literature.

Text-books (those starred will be purchased by the student):

*Des Granges, *Histoire Illustrée de la Littérature Française* (Hatier) *La Chanson de Roland, Tristan et Iseult* (in modern French versions). Villon, and Rabelais (in English translations). Corneille, *Horace*. Molière *Le Malade Imaginaire, Le Bourgeois Gentilhomme*. Racine, *Andromaque*. *La Fontaine, *Fables* (Cambridge University Press). *Rousseau, *Vie et Oeuvres de Rousseau* (edit. Schinz—Heath). Beaumarchais, *Le Barbier de Séville*.. *Book of French Verse (Oxford University Press).

Professor Campbell.

R 2. The Novel of the Nineteenth Century—a Critical Study.

Prévost, *Manon Lescaut*. Rousseau, *La Nouvelle Héloïse* (selections). Chateaubriand, *Atala, René*. de Staël, *Corinne*. Victor Hugo, *Notre-Dame de Paris, Les Misérables* (selections). Stendhal, *La Chartreuse de Parme*. Mérimée, *Colomba*. Balzac, *Eugénie Grandet, Le Père Goriot, Le Curé de Tours, Les Paysans, Les Chouans*. George Sand, *La Mare au Diable, Indiana*. Gustave Flaubert, *Mme. Bovary*, and either *Salammbo* or *l'Education Sentimentale*. de Goncourt, *Germinie Lacerteux*. Emile Zola, two of: *L'Assommoir, Lourdes, La Débâcle, La Faute de l'Abbé Mouret*. Anatole France, *Les Dieux ont soif*. Pierre Loti, *Pêcheur d'Islande*. Romain Rolland, *Jean Christophe* (selections).

Professor Conacher.

R 3. Le Roman régionaliste.

Balzac, *Les Paysans, Le Colonel Chabert*. Raymonde Vincent, *Campagne*. P. Hamp, *Le Rail*. Bazin, *La Terre Qui Meurt, Le Blé Qui Lève*. Maupassant, *Contes*. Hugo, *Quatre-Vingts-Treize*. Loti, *Pêcheur d'Islande, Mon Frère Yves, Ramuntcho*. Barbey d'Aurevilly, *Le Chevalier Des Touches*. de Chateaubriant, *La Brière*. J. de Pesquidoux, *Le livre de raison*. Henri Pourrat, *Gaspard des Montagnes*. Daudet, *Lettres de Mon Mou-*

lin. Mérimée, *Colomba*. Génevoix, *Raboliot*. H. Bordeaux, *Les Roquevillard*. Erckmann-Chatrian, *L'Ami Fritz*. George Sand, *Les Maitres Sonneurs*. Fort, *Ballades de l'Île de France*. Zola, *Paris*.

R 4. Introduction à la Littérature Canadienne.

(may be substituted for R 3).

Professor Tirol.

GRADUATE COURSES

Seminar courses: 24, 105, 110, 115, 120, and 121. If only one of these is chosen it must be 110 or 115.

Directed Special Studies to be determined upon consideration of the candidate's previous Course.

FRENCH 105. FRENCH CLASSICAL TRAGEDY. Professor Campbell.

FRENCH 110. OLD FRENCH. Professor Campbell.

FRENCH 115. MIDDLE FRENCH. Professor Campbell.

FRENCH 120. FRENCH-CANADIAN LITERATURE. Professor Tirol.

FRENCH 121. THE LITERATURE OF THE TWENTIETH CENTURY. Professor Tirol.

GERMAN LANGUAGE AND LITERATURE

PROFESSOR—Heinrich Henel, Ph.D.

ASSISTANT PROFESSOR—Hilda C. Laird, B.A., Ph.D.

REGULATIONS AND ANNOUNCEMENTS

1. German A may be counted towards a Pass degree or as an optional course towards an Honours degree. It may not be counted towards a Major or Minor in German. Students who enter the University without Matriculation in German and who wish to specialize in this subject may complete their programme of work in the usual time by taking German A during their first winter session and German 1 in the following summer.

2. Students offering German as one of the three main subjects on a Pass Course should take German 1, 2 and 10 (or A, 1 and 2 if not matriculated in German). Additional courses in German may be taken by pass students with the consent of the Department.

3. For a Major in German, a student must take:

(a) Twelve courses for the Major, as follows:

Seven courses in German: 1, 2, 10, and four further Honours courses, with two supporting courses chosen from Latin 2, Philosophy 10, and either History 12 or History 24. Three Reading courses, R 1, R 2, R 3.

(b) Five courses for the Minor in Latin, French, Spanish, English, History, Economics, or Philosophy.

(c) Six general courses to complete the work for degree:

With French, Spanish, History or Economics as Minor: English 1, 2, Latin 1, Philosophy 1, one science, one free option.

With English as Minor: Latin 1, Philosophy 1, one science, three free options.

With Latin as Minor: English 1, 2, Philosophy 1, one science, two free options.

With Philosophy as Minor: English 1, 2, Latin 1, one science, two free options.

Note: Classical Literature 1, History 1, and English 3 or 4 are recommended as free options.

(d) Two general examinations in the Major subject.

4. A Minor in German will normally consist of German 1, 2, 10, and two further Honours courses.

5. High School Specialist Certificate in French and German.

Candidates for admission to the Qualifying Examinations for the Specialist Course in French and German at the Ontario College of Education must take for degree:

Seven lecture courses in German—1, 2, 10, 15, 20, 13a, 18a, 21b, 22b.

Seven lecture courses in French (Details on p. 116).

German Reading courses 1 and 2 and a Reading course in French, or

German Reading course 1 and two Reading courses in French. Six compulsory general courses to complete the work for degree:

English 1, 2, Latin 1, 2, Philosophy 1, a science.

6. Students taking Honours in German are advised to read during the summer vacation as many as possible of the texts prescribed for the courses in which they intend to register during the following winter.

7. For information in regard to Scholarships in German, see page 57.

8. Students should provide themselves at once with a dictionary, at first James' or Cassell's English-German Dictionary, then an all German one, such as Hoffman's *Wörterbuch der deutschen Sprache*.

GERMAN A. PREPARATORY GERMAN.

This course is intended to meet the needs of students who enter the University with little or no knowledge of German. The work comprises drill on pronunciation, a study of the elements of grammar, the reading of easy literature, dictation, oral and written composition.

Text-books:—

Hagboldt and Kaufmann, *A Brief Course in German* (Heath).
Hagboldt and Kaufmann, *German Review and Composition* (Heath).
Leopold, *Ein Sommer in Deutschland* (Heath).
Durian, *Kai aus der Kiste* (Holt).

Tuesday, Thursday, Saturday at 10, and one additional afternoon hour.

Professor Laird.

GERMAN 1. FIRST YEAR GERMAN.

The work includes the reading of texts, a more advanced study of grammar and syntax (including written and oral exercises), memorizing of poems, writing from dictation, translation at sight, composition and oral practice.

Text-books:—

Chiles, *German Composition and Conversation* (Ginn); Kästner, *Drei Männer im Schnee* (Crofts); Appelt and Hanhardt, *Deutsches Leben* (Harper); Schnitzler, *Der blinde Geronimo und sein Bruder* (Heath); Collman, *Easy German Poetry* (Ginn).

Monday, Wednesday, and Friday at 11.

Professor Laird.

GERMAN 2. SECOND YEAR GERMAN.

The work consists of a more intensive study of modern literature, both prose and verse, oral and written composition, and a more advanced study of grammar and syntax. Extramural students, in order to be credited with this course, must satisfy the oral requirements.

Text-books:—

Clarke and Murray, *A Grammar of the German Language* (Cambridge); Klarmann and Gorr, *German Readings and*

Composition (Harper); Meyer, *Gustav Adolfs Page* (Holt); Baerg, *Deutschland* (Holt); Hausmann, *Abel mit der Mundharmonika* (Norton); Schiller, *Wilhelm Tell* (Holt).

Monday, Wednesday, and Friday at 10.

Professors Henel and Laird.

GERMAN 10. AN INTRODUCTION TO HONOURS IN GERMAN.

This course is open to both Pass and Honours students. It should be the first Honours course taken. Students taking a Major in German should register in courses 2 and 10 in the same year, if possible.

Text-books:—

Otto, *German Conversation Grammar* (Groos). Diamond, *Mitten im Leben* (Holt). Keller, *Kleider machen Leute* (Heath). Hebbel, *Agnes Bernauer* (Oxford). Schiller, *Jungfrau von Orleans* (Ginn); Bithell, *An Anthology of German Poetry 1880-1940* (Methuen).

Extramural students are advised to purchase also:

Purdie, *F. Hebbel: A Study of his Life and Works* (Oxford). Harris, *The Nature of English Poetry* (Dent). Hastings, *Studies in German Words and their Uses* (Heath). Leather, *Common Errors in German* (Dent).

Monday, Wednesday, and Friday at 9.

Professor Henel.

GERMAN 13a. GERMAN POETRY FROM OPITZ TO HÖLDERLIN (1600-1800).

Text-books:—

Closs and Mainland, *German Lyrics of the Seventeenth Century* (Duckworth). Bruns, *Die Lese der deutschen Lyrik* (Crofts). Eastman, *Goethe's Poems* (Crofts). Further reading to be assigned.

Not offered in 1943-44.

GERMAN 15. THE AGE OF GOETHE, 1770-1800.

Text-books:—

Schiller, *Die Räuber* (Oxford); *Kabale und Liebe* (Holt); *Don Carlos* (Oxford); *Maria Stuart* (Ginn); *Wallenstein* (Holt). Goethe, *Poems* (Holt); *Die Leiden des jungen Werther* (Oxford); *Götz von Berlichingen* (Ginn); *Egmont* (Holt); *Iphigenie auf Tauris* (Holt); *Torquato Tasso* (Heath).

Additional reading will be prescribed during the course.

Not offered in 1943-44.

GERMAN 18a. NINETEENTH CENTURY GERMAN DRAMA.

Text-books:—

Campbell, *German Plays of the Nineteenth Century* (Crofts); Petsch, *Deutsche Dramaturgie von Lessing bis Hebbel* (Müller); Hauptmann, *Die Weber* (Prentice-Hall).

Additional reading to be assigned.

Tuesday, Thursday, and Saturday at 9.

Professor Laird.

GERMAN 20. THE AGE OF GOETHE, 1800-1830.

Text-books:—

Goethe, *Faust I and II*, ed. Calvin Thomas (Heath); Borchert, *Goethe über seinen Faust* (Insel); Petsch, *Doktor Johannes Faust, Puppenspiele* (Reclam 6378-9). Hofmannsthal, *Deutsche Erzähler* (Insel); Silz, *German Romantic Lyrics* (Harvard).

Additional reading to be assigned.

Tuesday, Thursday, and Saturday at 10.

Professor Henel.

GERMAN 21b. ADVANCED GERMAN COMPOSITION A.

Text-books:—

Otto, *German Conversation Grammar* (Groos); Langewiesche, *Das amerikanische Abenteuer* (Prentice-Hall); Puckett, *Contemporary German Prose* (Holt); Leather, *Common Errors in German* (Dent); *Specimens of German Script* (Toronto).

Tuesday, Thursday, and Saturday at 9.

Professor Laird.

GERMAN 22b. ADVANCED GERMAN COMPOSITION B.

Text-books:—

Fallada, *Altes Herz geht auf die Reise* (Crofts). Lange, *Deutsche Briefe* (Crofts). Otto, *German Conversation Grammar* (Groos).

Not offered in 1943-44.

READING COURSES IN GERMAN:

A general knowledge of the development of German literature during the periods covered by the courses R 2 and R 3 will be required, as well as first-hand knowledge of the text-books prescribed.

R 1. DEUTSCHE GESCHICHTE.

A general knowledge of German history will be required as well as familiarity with the prescribed texts.

Text-books:

Pinnow, *Deutsche Geschichte*; Ronge, *Tacitus' Germania und die wichtigsten antiken Stellen über Deutschland* (Read chaps. 1-27 of *Germania* only). Steinhausen, *Geschichte der deutschen Kultur*, chaps. VI and VII; Treitschke, *Deutsche Geschichte im 19. Jahrhundert*, 'Einleitung' only. Bruford, *Germany in the 18th Century*; Henry Crabb Robinson, *Diary, Reminiscences and Correspondence*, chaps. 5-9; Brandenburg, *Die deutsche Revolution 1848*; Gooch, *Germany*; Ranke, *Deutsche Männer* (Insel 225); Schmidt, *Berühmte Deutsche neuerer Zeit* (Crofts).

Reference Works:—

Bitthell, *Germany, A Companion to German Studies*. Spruner-Menke, *Hand-Atlas für die Geschichte des Mittelalters und der neueren Zeit*. Robertson and Bartholomew, *Historical Atlas of Modern Europe*. Pagel, *Deutsche Geschichte in Bildern. Menschen der Zeit* (Blaue Bücher, Langewiesche). Chodowiecki, *Von Berlin nach Danzig*.

R 2. DER REALISMUS IN DEUTSCHLAND.**Text-books:—**

Droste-Hülshoff, *Die Judenbuche*. Gottfried Keller, *Spiegel, das Kätzchen*. Karl Immermann, *Der Oberhof*. Theodor Storm, *Immensee*. Paul Heyse, *L'Arrabiata*. Otto Ludwig, *Zwischen Himmel und Erde*. Wilhelm Raabe, *Die Chronik der Sperlingsgasse*. Gustav Freytag, *Die Brüder vom deutschen Haus*. Theodor Fontane, *L'Adultera*. C. F. Meyer, *Die Versuchung des Pescara*.

References:—

J. G. Robertson, *A History of German Literature*. Hugo Bieber, *Der Kampf um die Tradition*. R. M. Meyer, *Literatur des 19. Jahrhunderts*.

R 3. DIE LETZTEN FÜNFZIG JAHRE DEUTSCHER LITERATUR.**Text-books:—**

Hermann Sudermann, *Frau Sorge*. Gerhart Hauptmann, *Flo- rian Geyer* (Fischer). Gerhart Hauptmann, *Der Bibерpelz*. Hugo von Hofmannsthal, *Der Tor und der Tod* (Insel 28). Thomas Mann, *Die Buddenbrooks* (Fischer). Hermann Hesse, *Unterm Rad* (Fischer). M. Sommerfeld, *George, Hofmannsthal*,

Rilke (Norton). Georg Kaiser, *Die Bürger von Calais*. Leonhard Frank, *Die Ursache* (Fischer). Friedrich Griese, *Die Wagenburg* (Langen-Müller). Oswald Spengler, *Preussentum und Sozialismus* (C. H. Beck).

References:—

Jethro Bithell, *Modern German Literature, 1880-1938*. Paul Fechter, *Deutsche Dichtung der Gegenwart*. Hans Naumann, *Die deutsche Dichtung der Gegenwart*. Wolfgang Stammler, *Deutsche Literatur vom Naturalismus bis zur Gegenwart*.

GRADUATE COURSES

Lecture courses and Directed Special Studies will be arranged for by the Department as needed. The following lecture courses are obligatory:

GERMAN 101a. GESCHICHTE DER DEUTSCHEN SPRACHE.

Text-books:

Kirk, *Introduction to the Historical Study of New High German* (Manchester University Press). Braune, *Abriss der alt-hochdeutschen Grammatik* (Niemeyer).

GERMAN 102b. MITTELHOCHDEUTSCH.

Text-book:

Bachmann, *Mittelhochdeutsches Lesebuch* (Beer).

HEBREW

PROFESSOR—Rev. H. A. Kent, M.A., D.D., F.R.S.A.

LECTURER—Rev. S. MacLean Gilmour, B.D., Ph.D.

REGULATIONS AND ANNOUNCEMENTS

Students proceeding to Theology may, with the permission of the Board of Studies, substitute Hebrew 1 for a course in Latin.

COURSES OF INSTRUCTION

HEBREW 1.

The aim of this class is to enable students to read any of the narrative parts of the Hebrew Scripture. The Christmas term is devoted entirely to thorough study and practice of grammar and exercises. After the Christmas vacation parts of Genesis and Samuel, or other books, will be read, in addition to the work in grammar and composition.

Text-books: Davidson, *Hebrew Grammar* (20th or later editions), pages 1-113; Kittel, *Biblia Hebraica*, or *Hebrew Bible*, issued by B. and F. Bible Society; *Lexicons*, Brown-Driver-Briggs, or Fonolexika Langenscheidt or Bagster.

Tuesday, Thursday, and Saturday at 8.

Dr. Gilmour.

HEBREW 2.

This class aims at more advanced work in the Hebrew language than that attempted in course 1. The prophetic and poetic literature of the Old Testament will be studied and lectures given on Hebrew Syntax and the principles of Textual Criticism of the Old Testament. Students will be practised regularly in translating English into Hebrew, both *viva voce* and in written exercises.

Text-books: Davidson, *Hebrew Grammar*, pages 113-236, *Hebrew Syntax*. *Hebrew Bible* and *Lexicon* as in course 1.

Tuesday, Thursday, and Friday at 2.

Principal Kent.

SPANISH AND ITALIAN LANGUAGES AND LITERATURE

PROFESSOR—J. H. Brovedani, D-ès-L.

LECTURERS—A. B. Minor, A.M. (on leave of absence).

Doris E. L. Sargeant, B.A.

SPANISH

REGULATIONS AND ANNOUNCEMENTS

1. Spanish A may be counted towards a Pass degree, or as an optional course on Honours Courses in subjects other than Spanish. It may not be counted towards a Major or Minor in Spanish. Students who enter the University without Matriculation in Spanish and who wish to specialize in this subject may complete their programme of work in the usual time by taking Spanish A during their first winter session and Spanish 1 in the following summer.

2. Spanish A is a prerequisite to Spanish 1, and Spanish 1 is prerequisite to all other courses.

3. Students making Spanish one of the three main subjects on the Pass Course will take A, 1, 2, or 6 (with Spanish Matriculation 1, 2, and 6 or 10).

4. For Honours in Spanish, a student must take:**(a) Twelve courses for Major as follows:**

Seven courses, Spanish 1, 2, 10, 22, 24, 29 or 30, Italian 1, with two supporting courses to be selected from the following four: Latin 2, French 2, an Honours course in English, and History 24.

On the Course for Honours the marks in Italian will be averaged with those of the advanced courses in Spanish.

Three Reading courses in Spanish, R 1, R 2, R 3.

(b) Five courses for Minor in French, German, English, or Latin.**(c) Six compulsory general courses to complete the work for degree:**
With French as Minor: English 1, 2, Latin 1, Philosophy 1, one science, one free option.

With German as Minor: English 1, 2, Latin 1, Philosophy 1, one science, one free option.

With English as Minor: Latin 1, French 1 or German 1 or Greek 1, Philosophy 1, one science, two free options.

With Latin as Minor: English 1, 2, French 1 or German 1 or Greek 1, Philosophy 1, one science, one free option.

(d) Two general examinations in the Major subject.**5. High School Specialist Certificate in French and Spanish.**

Candidates for admission to the Qualifying Examinations for the Specialist Course in French and Spanish at the Ontario College of Education must take for degree:

Seven lecture courses in Spanish—1, 2, 10, 22, 24, 29, 30.

Seven lecture courses in French: Details on page 116.

Spanish Reading courses 1 and 2 and a Reading course in French, or,

Spanish Reading course 1 and two Reading courses in French. Six compulsory general courses to complete the work for degree:

English 1, 2, Latin 1, 2, Philosophy 1, a science.

One general examination in each of French and Spanish.

6. For information in regard to Scholarships in Spanish see p. 58.**COURSES OF INSTRUCTION****SPANISH A. ELEMENTARY SPANISH.****Prescribed texts:**

Hugo's *Spanish System* (Tech. Supp.). *Spanish Review Notes* (Tech. Supp.). Hugo's *Spanish Verbs* (Tech. Supp.). Cas-

tillo and Sparkman, *Graded Spanish Readers* (Heath). Castillo and Sparkman, *Primeras lecturas españolas* (Heath). Kasten-Silva, *Lecturas Escogidas* (Harper). Barlaw and Steel, *Noche oscura en Lima* (Croft). *Martínez Sierra* (Kany), *Rosina es frágil* (Heath).

Monday, Wednesday, and Friday at 9.

Tuesday, Thursday, and Saturday at 9.

Professor Brovedani and Miss Sargeant.

SPANISH 1. INTERMEDIATE SPANISH.

Prerequisite—Spanish Matriculation, or Spanish A.

Prescribed texts:

Cano, *La Vida de un pícaro* (Macmillan). Ramsey, *Spanish Grammar* (Holt), Part II; Kasten-Silva, *Lecturas Modernas* (Harper); López Brown, *Aquí se habla español* (Heath); Cervantes, *Aventuras de Don Quijote* (Houghton Mifflin); Oteyza, *El Diablo Blanco* (Macmillan); Sierra, *Sueño de una noche de agosto* (Holt).

Monday, Wednesday, and Friday at 9.

Professor Brovedani and Miss Sargeant.

SPANISH 2. ADVANCED SPANISH.

Prescribed texts:

Ramsey, *Spanish Grammar* (Holt), Part III; Buceta and Cornish, *Tres Comedias Contemporáneas* (Holt); Best Gana, *Martín Rivas* (Heath); Linares Rivas, *El Abolengo* (Heath); Valdés, *José* (Heath); Quinteros, *Doña Clarines y Mañana de Sol* (Heath); Galdós, *Mariánela* (Heath).

Tuesday, Thursday, and Saturday at 10.

Professor Brovedani.

SPANISH 6. COMMERCIAL SPANISH. READING OF SPANISH PROSE.

Prescribed texts:

Prerequisite, Spanish 1.

McHale, *Commercial Spanish* (Heath); Peers, *Intermediate Spanish Composition* (Heath); Coester, *Cuentos de la América Espanola* (Ginn); Camba, *La Rana Viajera* (Heath); Gorostiza, *Contigo Pan y Cebolla* (Ginn); Valdés, *Sinfonía Pastoral* (Am. Book Co.); Urgate y López Rubio, *De la noche a la mañana* (Norton).

Tuesday, Thursday, and Saturday at 10.

Miss Sargent.

SPANISH 10. MODERN AUTHORS.

Prescribed texts:

Alarcón, *El Sombrero de tres Picos* (Holt); Valdés, *La Hermana San Sulpicio* (Ginn); Quinteros, *Puebla de las mujeres* (Century), *Así se escribe la historia* (Craft); Alonso, *Antología de Ensayos Españoles* (Heath); Valera, *Juanita la Larga* (Century); Espronceda, *El Estudiante de Salamanca* (Ginn). Barja, *Autores Modernos*, (Tech. supp.). Ford, *Spanish Composition* (Heath), Part II.

Tuesday, Thursday, and Saturday at 9.

Professor Brovedani and Miss Sargeant.

SPANISH 14. SPANISH-AMERICAN LITERATURE.

Professor Brovedani.

Not offered in 1943-44.

SPANISH 15. A COMPARATIVE STUDY OF SPANISH AND PORTUGUESE.

Prerequisite, Spanish 10.

Hours to be arranged.

Professor Brovedani.

SPANISH 22. DRAMA OF THE GOLDEN AGE. ADVANCED COMPOSITION.

Lope, Tirso, Alarcón, Calderón.

Reserved for Honours students.

Offered in 1943-44.

Reserved for honours students.

Monday, Wednesday, and Friday at 10.

Professor Brovedani.

SPANISH 24. CERVANTES Y LA NOVELA DE COSTUMBRES.

Not offered in 1943-44.

Monday, Wednesday, and Friday at 10.

Professor Brovedani.

SPANISH 29. LA NOVELA REALISTA Y EL TEATRO MODERNO.

Offered in 1943-44.

Reserved for Honours students.

Hours to be arranged.

Professor Brovedani.

SPANISH 30. RENAISSANCE AND THE ROMANTIC PERIOD. THE PICAR-
ESQUE NOVEL.

Not offered in 1943-44.

Reserved for Honours students.

Hours to be arranged.

Professor Brovedani.

READING COURSES IN SPANISH.

R 1. Palacio Valdés, *Marta o María*; *La alegría del capitán Ribot*. Juan Valera, *Pepita Jiménez*. Ramón del Valle-Inclán, *Sonata de otoño*. Ramón de Campoamor, *Poesías*. Gustavo Adolfo Bécquer, *Desde mi celda: Rimás*. Rubén Darío, *Selections from his Prose and Poetry*. Jacinto Benavente, *Los intereses creados*; *La Malquerida*. Álvarez Quinteros, *El amor que pasa*. Salcedo, *Historia de la literatura española*, chs. 1-6, Vol. II.

R 2. Pardo Bazán, *Los posos de Ulloa* or *La Madre naturaleza*. Juan Valera, *Doña Luz* or *El comendador Mendoza*. Benito Pérez Galdós, *Fortunata y Jacinta*. Antonio de Trueba, *Cuentos*. Luis Coloma, *Pequeñeces*. Vicente Blasco Ibáñez, *La catedral*. Pío Baroja, *Camino de perfección*. Miguel de Unamuno, *Vida de don Quijote y Sancho* or *Del sentimiento trágico de la vida...* Gaspar Núñez de Arce, *Un idilio*; *El haz de leña*. Manuel Tamayo y Baus, *Lo positivo* or *Un drama Nuevo*. Adelardo López de Ayala, *El tanto por ciento* or *Consuelo*. César Barja, *Autores Modernos*.

R 3.

Santa Teresa de Jesús, *Libro de su vida*. Luis de León, *La perfecta casada*; *Poesías*. Guillén de Castro, *Las Mocedades del Cid*. Augustin Moreto y Cabaña, *El desdén con el desdén* or *El valiente Justiciero*. Luis Vélez de Guevara, *Más pesa el rey que la sangre*; *Diablo cojuelo*. Francisco de Rojas Zorrilla, *Del rey abajo*, *Ninguno*. Francisco Gómez de Quevedo, Meléndez Valdés, Quintana, Herrera, Góngora, and Gallego in the Oxford Book of Spanish Verse. Selections from Samaniego, Iriarte, Jovellanos. José Cadalso, *Cartas marruecas*; *Noches Lúgubres*. Ramón de la Cruz, *Las tertulias de Madrid*; *El Prado por la noche*; *La Pradera de San Isidro*; *La Plaza Mayor por Navidad...* Leandro Fernández de Moratín *El sí de las niñas* or *La comedia nueva*. José Zorilla, *Don Juan Tenorio*. Padre Isla, *Gil Blas* or *Fray Gerundio*. José María de Pereda, *Sotileza*; *Peñas arriba*. Romera-Navarro, *Historia de la literatura española*.

GRADUATE COURSES

Lecture courses and Directed Special Studies will be offered as needed.

ITALIAN

COURSES OF INSTRUCTION

ITALIAN 1. ELEMENTARY ITALIAN.

Alternate years only. Not offered in 1943-44.

Monday, Wednesday, and Friday at 9.

Reserved for Honours Spanish students.

ART

RESIDENT ARTIST—André Biéler.

Art 1 and Art 2 will be offered in alternate years. A student will be permitted to offer both of these courses towards a degree.

The aim of the courses is to show that the essential character of each period in history has been given expression through its Art.

ART 1. (Offered in 1944-45 and in alternate years.)

Early Christian, Gothic, Renaissance, Modern.

ART 2. (Offered in 1943-44 and in alternate years.)

Ancient, Oriental and North American Art.

STUDIO:

In conjunction with the lectures, there will be a Studio session, where, by actual practice, the student will study the different technical aspects of the arts of successive periods.

Texts:

Art through the Ages, by Helen Gardner.

Vision and Design, by Roger Fry.

Lecture period—*Monday and Thursday, 4-5.*

MUSIC

ASSISTANT PROFESSOR—F. L. Harrison, Mus.D. (Trinity College, Dublin).

Music 1 and 2 may be offered towards the degree of Pass B.A. The same allowance will be permitted on an Honours Course when the Department giving the Major subject so recommends. Music 1 is prerequisite to Music 2, except by permission of the instructor.

MUSIC 1. HISTORY OF MUSIC.

An introduction to the materials of music and a survey of its history. Essays and analyses of significant examples, through recordings and scores.

The lectures are held in the Music Room (111) in the Douglas Library, and are illustrated throughout by the use of the Carnegie library of records and orchestral scores and by the pianoforte.

Prescribed text:

T. M. Finney, *A History of Music* (Harcourt, Brace and Co.).
Monday, Wednesday, and Friday at 4.30.

MUSIC 2. STRUCTURE OF MUSIC.

A study of theory, elementary harmony and counterpoint and of composition in the simpler forms.

Lecture periods: Rudiments of music; writing of melodies; counterpoint and harmony up to and including dominant discords, suspensions and elementary modulation; two, three, and four-part writing in its creative application.

Composition period: Composition in simpler forms; study of models through pianoforte and gramophone.

Prescribed text:

D. E. Parry-Williams, *A Music Course* (Oxford University Press).

Lecture Periods: *Monday and Wednesday at 2.*

Composition Period: *Thursday at 4.*

HISTORY

JAMES DOUGLAS PROFESSOR OF CANADIAN AND COLONIAL HISTORY—
Reginald G. Trotter, M.A., Ph.D., D.C.L., F.R.Hist.S., F.R.S.C.
PROFESSOR—A. E. Prince, M.A., B.Litt.
ASSOCIATE PROFESSOR—Gerald S. Graham, M.A., Ph.D., F.R.Hist.S.
(on leave of absence)*
ASSISTANT PROFESSOR—W. E. C. Harrison, M.A.
INSTRUCTOR AND LEONARD FELLOW—Frederick W. Gibson, B.A.
WESTERN ONTARIO GRADUATES FELLOW—Hugh A. Black, B.A.

REGULATIONS AND ANNOUNCEMENTS

1. In all courses in history a knowledge of historical geography is required. In addition to the atlases prescribed in individual courses the following is recommended as the most convenient general historical atlas now in print:

Ramsay Muir, *Philips' New Historical Atlas for Students*
(Clarke, Irwin and Co., Toronto).

2. Students selecting History as one of the special subjects for a Pass degree will take History 1 (unless credited with Modern History as an Honour Matriculation subject), History 3 and History 4, 5, 7, or 9. Students obtaining not less than grade B in History 3 may substitute for History 4, 5, 7 or 9, any one of History 12, 13, 16, 17, 18a with 19b, 14a or 15a with 11b.

3. Students presenting Upper School History with a grade not less than B may, in their first year, take History 12 (or 16) or 13 concurrently with History 3.

4. Honours in History may be taken either in British and European History or in British and Colonial History.

A. British and European History.

(a) Twelve courses for Major as follows:

History 1, 3, 12 (or 16), 13, 17, 18a, 19b, 16 (or 12) or 24, and 27 or two of 11b, 14a, 15b, with one supporting course, Greek and Roman History 4 or Latin 2.

Three Reading courses chosen from R 1, R 2, R 3, R 4, R 5, R 6, R 7, R 8.

Subject to the approval of the Department one Reading course may be selected from those offered in the Minor subject.

* Lieutenant Commander, R.C.N.V.R., Naval College, Esquimalt, B.C.

- (b) Five courses for Minor in English, Greek and Roman History, French, Philosophy, or Political and Economic Science.
- (c) Six compulsory general courses to complete the work for degree: With English as Minor: Latin 1, French 1 or German 1 or Greek 1, Philosophy 1, one science, two free options. (Greek and Roman History 52 or 53 is recommended).

With Economics, Politics, or Greek and Roman History as Minor: English 1, 2; Latin 1 or Mathematics 1; Philosophy 1; French 1 or Greek 1 or German 1; one science. With French as Minor: English 1, 2, Latin 1, Philosophy 1, one science, one free option.

With Philosophy as Minor: English 1, 2, Latin 1 or Mathematics 1, French 1 or German 1 or Greek 1, one science, one free option.

B. British and Colonial History.

- (a) Twelve courses for Major as follows:

History 1, 3, 12 (or 16), 13, 17, 18a, 19b, 20, 28, with one supporting course, Greek and Roman History 4 or Latin 2. Three Reading courses in History chosen from R 1, R 2, R 3, R 4, R 5, R 6, R 7, R 8. Subject to the approval of the Department one Reading course may be selected from those offered in the Minor subject.

- (b) Five courses for Minor—as stated in A (b).

- (c) Six compulsory general courses—as stated in A (c).

5. High School Specialist Certificate in History.

Candidates for admission to the Qualifying Examinations for the Specialist Course in History at the Ontario College of Education will take the regular Honours Course in History with a Minor in Political and Economic Science made up of Economics 4, Politics 2, Economics 10, and two further courses in Politics or Economics. Geology 1 must be taken as the required science and History R 5, *Geographical Discovery and Exploration*, must be included among the Reading courses.

6. Minors in History.

- (a) A Minor in History normally consists of History 1, 3, 12 or 16, 13 or 17, and one other course numbered over ten.

- (b) Candidates for admission to the Qualifying Examinations for the Specialist Course in English at the Ontario College of Education must take the regular Honours Course in English with a Minor in

Social History made up as follows: History 1, 3, 16, and two of 17, 18a with 19b, 24, 28, (*See Course for Specialist in English*, page 103).

7. For information in regard to Scholarships in History see p. 58.

HISTORY 1. MODERN EUROPE.

An historical introduction to contemporary Europe.

H. A. L. Fisher, *History of Europe* (Longmans). J. F. Horrabin, *An Atlas of European History* (Ryerson). Other reading to be assigned. Extramural students will be required to buy additional books.

Tuesday, Thursday, and Saturday at 11.

Professor Harrison.

HISTORY 3. CANADIAN HISTORY.

Canadian history in its relation to the expansion of European civilization into the western hemisphere.

R. S. Cotterill, *A Short History of the Americas* (Prentice-Hall). J. B. Brebner, *The Explorers of North America 1492-1806* (Macmillan). Carl Wittke, *A History of Canada* (McClelland and Stewart). Other reading to be assigned.

Extramural students will be required to buy additional books.

Monday, Wednesday, and Friday at 11. Professor Trotter.

HISTORY 4.

This course is the same as Greek and Roman History 4 and is given by the Department of Classics. For prescription see page 101.

HISTORY 5. ENGLAND FROM THE MIDDLE AGES TO THE PRESENT DAY.

(Not offered in 1943-44).

Emphasis will be given to the evolution of parliamentary institutions and the development of British external policy.

E. H. Carter and R. A. F. Mears, *A History of Britain* (1485 to the present day) (Oxford University Press). Other reading to be assigned.

Monday, Wednesday, and Friday at 10. Professor Graham.

HISTORY 7. CONTEMPORARY EUROPE.

(Offered only in Summer School. Not offered in 1943).

Open to any student who has previously taken either Upper School History or History 1.

E. Lipson, *Europe 1914-1939* (Macmillan).

G. M. Gathorne-Hardy, *A Short History of International Affairs, 1920-1938* (Oxford University Press).

J. F. Horrabin, *An Atlas of Current Affairs* (Ryerson Press). Other reading to be assigned.

Professor Harrison.

HISTORY 9. MILITARY HISTORY.

Military development from the earliest times to the present, with special reference to the history of the British Army. The evolution of strategy and tactics will be discussed, as well as that of methods of recruitment and the relations of the armed forces to society.

Fortescue, J. W., *Military History* (Cambridge University Press); Fuller, J. F. C., *Decisive Battles* (Eyre and Spottiswoode); *Field Service Regulations*, Part II.

Other reading to be assigned.

Tuesday, Thursday, and Saturday at 9.

Professor Prince.

HISTORY 11b. UNITED STATES HISTORY.

(Not offered in 1943-44).

A survey course covering the national period.

H. C. Hockett and A. M. Schlesinger, *Political and Social Growth of the United States* (Revised ed. 1933. Macmillan).

A. B. Hart and H. E. Bolton, *American History Atlas* (Denoyer-Geppert, Chicago). Other reading to be assigned.

Monday, Wednesday, and Friday at 11.

Professor Graham.

HISTORY 12. MEDIAEVAL EUROPEAN HISTORY, 400-1453.

(Offered in 1944-45 but not in 1943-44).

A study of the evolution of Western civilization during this period.

Carl Stephenson, *Mediaeval History* (Harper). R. C. D. Laffan, *Select Documents of European History*, Vol. I (Holt). Other reading to be assigned.

Monday, Wednesday, and Friday at 9. Professor Prince.

HISTORY 13. THE DEVELOPMENT OF BRITISH COLONIAL POLICY.

J. A. Williamson, *The British Empire and Commonwealth* (Macmillan). R. G. Trotter, *The British Empire-Commonwealth* (Macmillan). A. B. Keith, *Speeches and Documents on the British Dominions, 1918-1931* ("The World's Classics", Oxford University Press). Students are advised also to purchase for their own use: J. F. Horrabin, *An Atlas of Empire* (Ryerson). Other reading to be assigned.

Monday, Wednesday, and Friday at 10. Professor Trotter.

HISTORY 14a. THE FAR EAST.

A study of the modern history of China and Japan, emphasizing the relations of other Powers with those countries.

Payson J. Treat, *The Far East* (Harpers). Other reading to be assigned.

Monday, Wednesday, and Friday at 11. Professor Prince.

HISTORY 15b. THE NEAR AND MIDDLE EAST.

A study in the relations between occidental and oriental peoples of that region. The course stresses the rise and fall of the Ottoman Empire, the contacts of Christianity and Islam, international rivalries, recent Balkan troubles, the rebirth of Turkey, Arabia, Palestine, the impact of the present war, etc.

J. A. R. Marriott, *The Eastern Question* (Oxford University Press). *South-Eastern Europe* (R. Institute of International Affairs). Other reading to be assigned.

Monday, Wednesday, and Friday at 11. Professor Prince.

HISTORY 16. MEDIAEVAL BRITISH HISTORY.

(Offered in 1943-44 but not in 1944-45).

This course traces British progress down to 1485, emphasizing the constitutional and cultural aspects of the history.

W. E. Lunt, *History of England* (Harper). G. B. Adams, *Constitutional History of England* (Holt); C. Stephenson and F. G. Marcham, *English Constitutional History* (Harper). G. M. Trevelyan, *English Social History* (Longmans). Other reading to be assigned.

Monday, Wednesday, and Friday at 9. Professor Prince.

HISTORY 17. MODERN BRITAIN.

An historical introduction to contemporary Britain.

Gilbert Slater, *The Growth of Modern England* (Macmillan). Sir John Marriott, *Modern England, 1885-1939* (Saunders). G. B. Adams, *Constitutional History of England* (Holt). G. M. Trevelyan, *English Social History* (Longmans). Other reading to be assigned.

Monday, Wednesday, and Friday at 9. Professor Harrison.

HISTORY 18a. ENGLAND UNDER THE TUDORS, 1485-1603.

J. B. Black, *The Reign of Queen Elizabeth* (Oxford University Press); G. B. Adams, *Constitutional History of England* (Holt). G. M. Trevelyan, *English Social History* (Longmans). Other reading to be assigned.

Tuesday, Thursday, and Saturday at 9. Professor Harrison.

HISTORY 19b. ENGLAND UNDER THE STUARTS, 1603-1714.

Godfrey Davies, *The Early Stuarts* (Oxford University Press). G. N. Clark, *The Later Stuarts* (Oxford University Press). G. B. Adams, *Constitutional History of England* (Holt). G. M. Trevelyan, *English Social History* (Longmans). Other reading to be assigned.

Tuesday, Thursday, and Saturday at 9. Professor Trotter.

HISTORY 20. CANADIAN HISTORY TO 1818.

R. G. Trotter, *Canadian History, A Syllabus and Guide to Reading* (new and enlarged edition, Macmillan). Reading to be assigned.

Tuesday, Thursday, and Saturday at 10.

Mr. Gibson.

HISTORY 24. THE RENAISSANCE.

(Not offered in 1943-44).

The emphasis in lectures and discussions will be on the cultural and religious developments of the period.

Henry S. Lucas, *The Renaissance and the Reformation* (Harper). F. Schevill, *First Century of Italian Humanism* (Crofts). Other reading to be assigned.

Monday and Wednesday at 1.30. Professor Prince.

HISTORY 27. RECENT EUROPE.

An historical approach to the problems of contemporary Europe. E. Lipson, *Europe in the Nineteenth and Twentieth Centuries* (Macmillan). E. H. Carr, *The Twenty Years' Crisis, 1919-1939: An Introduction to the Study of International Relations* (Macmillan). G. M. Gathorne-Hardy, *A Short History of International Affairs, 1920-1938* (Oxford University Press). A Study Group, Royal Institute of International Affairs: *Nationalism* (Oxford University Press). Other reading to be assigned.

Monday, Wednesday, and Friday at 11. Professor Harrison.

HISTORY 28. CANADIAN HISTORY SINCE 1818.

A seminar combining discussion of historical methods and bibliography, and problems of interpretation in Canadian history, with reports by students on selected topics.

R. G. Trotter, *Canadian History, A Syllabus and Guide to Reading* (new and enlarged edition, Macmillan). Readings on the period will be assigned, and other material in the Queen's collection of Canadiana will be used in connection with the preparation of reports.

Tuesday and Thursday at 1.15. Professor Trotter.

READING COURSES IN HISTORY:

R 1. A Mediæval Mosaic.

G. G. Coulton, *The Mediaeval Scene* (Cambridge U. P.). E. Power, *Mediaeval People* (Penguin). H. Adams, *Mont-Saint-Michel and Chartres* (Houghton, Mifflin). P. Sabatier, *St. Francis* (Hodder and Stoughton). J. Huizinga, *Waning of the Middle Ages* (Arnold). H. Pirenne, *Mediaeval Cities* (Princeton U. P.). C. H. Haskins, *Rise of Universities* (Holt).

R 2. Some English Political Ideas from Locke to Bentham.

H. J. Laski, *Political Thought from Locke to Bentham* (Home University Library). John Locke, *Treatise of Civil Government*, ed. by C. L. Sherman (Appleton-Century). Bolingbroke, *The Idea of a Patriot King*, with introduction by A. Hassall (Oxford University Press). Burke, *Thoughts on the Causes of the Present Discontents* (Macmillan); *American Speeches and Letters* (Dent: Everyman's Library); *Reflections on the French Revolution* (Dent: Everyman's Library).

R 3. British Foreign Policy to 1914.

R. W. Seton-Watson, *Britain in Europe, 1789-1914: a survey of foreign policy* (Macmillan). Sir John Tilley and Stephen Gaselee, *The Foreign Office* (Putnam). Harold Nicolson, *Diplomacy* (Nelson). A. F. Pribram, *England and the International Policy of the European Great Powers, 1871-1914* (Oxford University Press). G. M. Trevelyan, *Grey of Falloden* (Macmillan). Viscount Grey, *Twenty-five Years* (Hodder and Stoughton). Harold Nicolson, *Sir Arthur Nicolson: First Lord Carnock* (Macmillan). Viscount Haldane, *Autobiography* (Hodder and Stoughton). Winston Churchill, *The World Crisis, 1911-1914*, Vol. I (Scribners).

R 4. Anglo-American and Canadian-American Relations.

R. B. Mowat, *The Diplomatic Relations of Great Britain and the United States* (Longmans). L. M. Gelber, *The Rise of Anglo-American Friendship: A Study in World Politics, 1898-1906* (Oxford University Press). Edgar W. McInnis, *The Unguarded Frontier: A History of Canadian-American Relations* (McClelland and Stewart). H. L. Keenleyside, *Canada and the United States* (Crofts). P. E. Corbett, *The Settlement of Canadian-American Disputes* (Ryerson). W. B. Munro, *American Influences on Canadian Government* (Macmillan). Sir Robert Falconer, *The United States as a Neighbour* (Cambridge University Press). *Conference on Canadian-American Affairs, 1935: Proceedings*, edited by W. W. McLaren, A. B. Corey, R. G. Trotter (Ginn). (The section on "The Historical Background of Present Problems and Attitudes"). *Conference on Canadian-American Affairs, 1937: Proceedings*, edited by R. G. Trotter, A. B. Corey, W. W. McLaren (Ginn). *Conference on Canadian-American Affairs, 1939: Proceedings*, edited by A. B. Corey, R. G. Trotter, W. W. McLaren (Ginn). *Conference on Canadian-American Affairs, 1941: Proceedings*, edited by R. G. Trotter, A. B. Corey (Ginn). B. K. Sandwell, *Canada and United States Neutrality*; and R. G. Trotter, *North America and the War (Oxford Pamphlets on World Affairs)*. R. A. MacKay and E. B. Rogers, *Canada Looks Abroad* (Revised edition, 1943. Oxford University Press).

R 5. Geographical Discovery and Exploration.

J. N. L. Baker, *A History of Geographical Discovery and Exploration* (New edition, 1937. Clarke, Irwin). J. E. Gillespie, *A History of Geographical Discovery, 1400-1900* (Clarke, Irwin). J. Holland Rose, *Man and the Sea: Stages in Maritime and Human Progress* (Heffer & Sons, Cambridge, England). A. P.

Newton, editor, *The Great Age of Discovery* (University of London Press). Hakluyt, *Voyages of the Elizabethan Seamen, Select Narratives from the "Principal Navigations" of Hakluyt*, edited by E. J. Payne and C. R. Beazley (Oxford University Press). Leonard Outhwaite, *Unrolling the Map: The Story of Exploration* (John Day).

It is not expected that the student will attempt to memorize the great mass of factual detail in Baker; but it should be carefully read in its entirety, with attention mainly on those phases of exploration that are also illustrated in the maps.

Gillespie's brief volume will be useful as an introductory and supplementary sketch, but should not be considered as being at all a substitute for the ampler material in the other volumes named.

R 6. History and Historiography.

Encyclopaedia of the Social Sciences, Vol. VII, pp. 357-389: "History and Historiography". Allan Nevins, *The Gateway to History* (Heath). E. R. A. Seligman, *The Economic Interpretation of History* (Columbia University Press). Shailer Mathews, *The Spiritual Interpretation of History* (Harvard University Press). H. E. Barnes, *History of Historical Writing* (Univ. of Oklahoma Press). Lucy M. Salmon, *Historical Material* (Oxford University Press). G. P. Gooch, *History and Historians in the Nineteenth Century* (Longmans), (material on the following historians: Ranke, Treitschke, Michelet, Guizot, Tocqueville, Taine, Aulard, Hallam, Lingard, Macaulay, Carlyle, Froude, Stubbs, Freeman, Green, Gardiner, Lecky, Seeley, Acton, Bancroft (George), Prescott, Parkman, Mahan, Burckhardt).

Students electing R 6 are advised to read it in their final year.

R 7. The History of Political Ideas.

Phyllis Doyle, *A History of Political Thought* (Cape). R. H. S. Crossman, *Government and the Governed* (McClelland). W. D. Ross (ed.), *Aristotle*, Chapter VIII (Methuen). A. D. Lindsay, *The Republic of Plato* (Dent). A. P. D'Entreves, *The Mediaeval Contribution to Political Thought* (Oxford University Press). Alfred Zimmern (ed.), *Modern Political Doctrines* (Oxford). A Study Group, Royal Institute of International Affairs, *Nationalism* (Oxford University Press). Michael Oakeshott, *The Social and Political Doctrines of Contemporary Europe* (Macmillan). Michael B. Foster, *Masters of Political Thought*, Vol. I, *Plato to Machiavelli* (Houghton Mifflin).

R 8. War: its Nature, History, Causes and Prevention.

Quincy Wright, *A Study of War* (two volumes) (University of Chicago Press. Toronto: W. J. Gage and Company). C. R. M. F. Crutwell, *A History of Peaceful Change in the Modern World*. (Oxford University Press for the Royal Institute of International Affairs). James T. Shotwell, *War as an Instrument of National Policy*. E. H. Carr, *Conditions of Peace* (Macmillan). *War and Peace Aims* (United Nations Information Office, New York).

GRADUATE COURSES

Directed Special Studies may be pursued and a thesis written in many aspects of Canadian History and in some phases of English and European History. Such courses in Canadian History as shall be offered at the Queen's Summer School of History at the Public Archives at Ottawa may with advantage be taken there instead of at the University in the winter. (The Summer School at the Archives will not be held in 1943 on account of the war).

MENTAL AND MORAL PHILOSOPHY

THE JOHN AND ELLA G. CHARLTON PROFESSOR OF PHILOSOPHY—

George Humphrey, M.A., Ph.D., F.R.S.C.

PROFESSOR—Gregory Vlastos, M.A., Ph.D.

(on leave of absence)*

ASSISTANT PROFESSOR—H. Martyn Estall, M.A., Ph.D.

LECTURER—D. V. Wade, M.A.

INSTRUCTOR IN EXPERIMENTAL PSYCHOLOGY—J. Houck, M.A.

REGULATIONS AND ANNOUNCEMENTS

1. Students choosing Philosophy as one of the main subjects on a Pass Course will take courses 1, 2, and one of 3, 4, 10, 14a and 11b, 12 or 24.

2. Students taking an Honours Course in Philosophy, who do not take courses 1 and 2 in the same year, will be permitted to combine one of these courses with appropriate Honours classes.

3. For information in regard to Scholarships in Philosophy see page 59.

*Squadron Leader, Royal Canadian Air Force, Special Service.

For Honours in Philosophy a student must take:

(a) Twelve courses for Major as follows:

Nine courses in Philosophy, viz.: (i) Philosophy 1, 2, 10, 18, 22, 29, and three from the following: 11b, 14a, 19b, 31a, 32, or one supporting course. (ii) Philosophy 1, 2, 10, 12, 15, 22, 24, 30, and one supporting course that will ordinarily be Biology 1, or French 2, or Latin 2.

Three Reading courses, R 1, R 2, R 3, or R 4, R 5, R 6.

(b) Five courses for Minor in History, Economics, English, Biology, Classics or Mathematics.

(c) Six compulsory general courses to complete the work for degree:
With History as Minor: English 1, 2, French 1 or German 1 or Greek 1, Latin 1 or Mathematics 1, one free option, one science. (Biology 1 is recommended if not taken).

With Economics as Minor: English 1, 2, French 1 or German 1 or Greek 1, Latin 1 or Mathematics 1, one free option, one science. (Biology 1 is recommended).

With English as Minor: Latin 1, French 1, one science, three free options.

With Biology as Minor: English 1, 2, French 1 or German 1 or Greek 1, Mathematics 1, one free option, one science. (Chemistry 1 is recommended).

With Latin as Minor: English 1, 2, French 1 or German 1 or Greek 1, two free options, one science. (Biology 1 is recommended).

With Mathematics as Minor: English 1, 2, French 1 or German 1 or Greek 1, one science, two free options. (Politics 2 is recommended).

4. A Minor in Psychology will ordinarily be: Philosophy 1, 2, 22, and two of 10, 12, 15, 24.

5. A Minor in Philosophy will ordinarily be: Philosophy 1, 2, 10, and two of 14a, 11b, 19b, 18, 22, 29.

PHILOSOPHY 1. INTRODUCTION TO PHILOSOPHY.

The aim of the course is to introduce the student to methods of critical thinking in logic and ethics.

Text-books:

Burtt, *Principles and Problems of Right Thinking* (Harper).
Dewey, *Human Nature and Conduct* (Modern Library).

Wheelwright, *A Critical Introduction to Ethics* (Doubleday, Doran). Holmes, *Exercises in Reasoning* (Appleton-Century).

Monday, Wednesday, and Friday at 9.
Sections to be arranged.

Professors Vlastos and Estall.

PHILOSOPHY 2. PSYCHOLOGY.

An elementary survey of mental life.

Text-books:

Murphy, *Briefer General Psychology* (Harpers). Kimball Young, *Source Book for Social Psychology* (Knopf). Allport, *Social Psychology* (Houghton Mifflin). Extramural students will buy also Humphrey, *Story of Man's Mind*, 1932 (Dodd-Mead).

Monday, Wednesday, and Friday at 11.
Professor Humphrey.

PHILOSOPHY 3. THE PHILOSOPHY OF DEMOCRACY.

This course aims to clarify the ideals and values of the democratic way of life.

Text-books:

Edman, *Fountainheads of Freedom* (Reynal and Hitchcock). Second text to be announced.

Monday, Wednesday, and Friday at 11.
Professors Vlastos and Estall.

PHILOSOPHY 4. APPLIED PSYCHOLOGY.

A survey of present-day psychology and its elementary applications in business, industry and the home. The problem of mental health is treated in informal discussion of study habits and personal adjustment.

Text-books:

Griffith, *An Introduction to Applied Psychology* (Macmillan). W. D. Ross, *Understanding Ourselves*.

Recommended: Robinson, *Diagnostic and Remedial Techniques for Effective Study* (Harper, 1941).

Tuesday, Thursday, and Saturday at 11.

PHILOSOPHY 10. HISTORY OF PHILOSOPHY.

A survey of the major systems in ancient and modern philosophy. Fuller, *History of Philosophy* (Holt). Extramural students are also required to buy Plato, *The Republic* (Everyman). Aristotle, *Selections, edited by Ross* (Scribners).

Monday, Wednesday, and Friday at 10.

Professors Vlastos and Estall.

PHILOSOPHY 11b. CONTEMPORARY MOVEMENTS IN PHILOSOPHY.

A study of typical figures in the philosophy of the nineteenth and twentieth centuries.

Texts to be announced. Readings in the original literature required.

Professor Estall.

Not offered in 1943-44.

PHILOSOPHY 12. PSYCHOLOGY OF THE CHILD.

The aim of this course is to give a psychological insight into the problems of the development and education of the child and young person. The theory and application of mental testing are discussed, and arrangements will be made for practical work in testing of children.

Text-books:

Freeman, *Individual Differences* (Holt), and another text to be announced. Boynton, *Intelligence* (Appleton-Century). Sandiford, *Educational Psychology* (Longmans). Readings are also required in other texts.

Tuesday, Thursday, and Saturday at 9.

Professor Humphrey.

PHILOSOPHY 14a. AESTHETICS.

The course aims to introduce the student to the general question of the meaning of beauty and its place in experience.

Text-book:

Rader, *A Modern Book of Aesthetics* (Holt).

Tuesday, Thursday, Saturday, at 10.

Not offered in 1943-44.

Professor Vlastos.

PHILOSOPHY 15. EXPERIMENTAL PSYCHOLOGY.

Shows how the character, motives, actions, perceptions, emotions, and thinking of human beings are experimentally investigated. Application of psychological principles to everyday life will be discussed and various tests of intelligence, aptitude and personality given. The principles of military personnel selection will be discussed.

Texts: to be announced.

Wednesday, 1 to 4; Friday, 1 to 3; or by arrangement.

PHILOSOPHY 18. MORAL AND SOCIAL PHILOSOPHY.

The general approach will be as follows:

(a) Critical study of the historical development of moral and social theory;

(b) Examination of ethical issues in contemporary life.

Text-book: Dewey and Tufts, *Ethics* (revised edition, Holt).

Tuesday, Thursday, and Saturday at 10.

Professor Vlastos.

PHILOSOPHY 19b. THE CONCEPT OF GOD IN RECENT PHILOSOPHY.

This course is not offered as preparation for professional studies in theology, but for its general interest for the student of philosophy.

Text-book:

A. N. Whitehead, *Religion in the Making* (Cambridge). Additional readings in the following: W. E. Hocking, *The Meaning of God in Human Experience* (Yale). S. Alexander, *Space, Time, and Deity* (Macmillan). Horton and Wieman, *The Growth of Religion* (Willet, Clark).

Hours to be arranged.

Professor Estall.

PHILOSOPHY 22. THE PRINCIPLES OF PSYCHOLOGY.

A systematic presentation of present day psychological doctrine, which is discussed in the light of the experimental evidence. Some experimental work will be required, the hours of which will be arranged.

Text-book:

Boring, Langfeld and Weld, *Psychology* (Wiley).

Reference: Woodworth, *Experimental Psychology* (Holt). Reading is required in the current literature.

Monday, Wednesday, and Friday at 11.

Professor Humphrey.

PHILOSOPHY 24. ABNORMAL PSYCHOLOGY.

A study of the more modern theories of abnormal mental function, with their relation to normal psychology and everyday mental hygiene.

Text-book:

W. MacDougall, *Abnormal Psychology* (Scribners). Readings are also required in other texts.

Tuesday, Thursday, and Saturday at 9.

Professor Humphrey.

Not offered in 1943-44.

PHILOSOPHY 29. LOGIC AND SCIENTIFIC METHOD.

A survey of Aristotelian and symbolic logic, and a study of the principles of scientific thinking. Students will be invited to assist in the logical examination of experimental research.

Cohen and Nagel, *Introduction to Logic and Scientific Method* (Harcourt, Brace, 2nd edition).

Hours to be arranged.

Professor Estall.

PHILOSOPHY 30. PROBLEMS IN PSYCHOLOGY.

A specific experimental problem of a minor character is taken up. A comprehensive report will be required, which will exhibit the results of the investigation and give an account of the previous literature. This course is open for advanced students only, and by permission of the instructor concerned.

Hours by arrangement.

Professor Humphrey.

PHILOSOPHY 31a. THE FOUNDATIONS OF SOCIAL IDEALS.

- (a) An inquiry into the methodology of the social sciences and the sociology of knowledge.
- (b) An examination of the theoretical basis of contemporary social ideals.

This is a seminar for students in philosophy or the social sciences. It may be taken only with the permission of the instructors, and will be offered only if a sufficient number of qualified students apply.

Readings in Knight's *Ethics of Competition*, Lynd's *Knowledge for What?*, Znaniecki's *Social Rôle of Man of Knowledge*, Parsons's *Structure of Social Action*, Mannheim's *Man and Society*, and other books.

Hours to be arranged.

Professors Vlastos and Estall.

PHILOSOPHY 32. GREEK SOCIAL PHILOSOPHY.

Discussion of essays on ethical and political theory with special reference to Plato and Aristotle. This course is identical with Greek and Roman History 52.

Nit offered in 1943-44.

Professor Vlastos.

READING COURSES IN PHILOSOPHY.

R 1. Metaphysics of Plato.

A study of the philosophy of Plato with special attention to the later dialogues.

F. M. Cornford, *Plato's Theory of Knowledge* (Kegan, Paul).

F. M. Cornford, *Plato's Cosmology* (Kegan, Paul).

R 2. History of Ethics.

Detailed readings in the classical moralists. (A continuation of Philosophy 18.) *Plato, Philebus, Politicus*. Aristotle, *Nicomachean Ethics*. Kant, *Metaphysic of Morals*.

R 3. Aesthetic Theory.

(Macmillan). Harrison, *Ancient Art and Ritual* (Home University Library). Caudwell, *Illusion and Reality* (Macmillan).

The student who has a special interest in one of the arts may consult the Department for alternative reading matter.

R 3a may be taken as an alternative to R 1, R 2, or R 3.

R 3a. Philosophy of Science.

Emile Meyerson, *Identity and Reality* (George Allen & Unwin).

E. Cassirer, *Substance and Function* (Open Court). Werkmeister, *Philosophy of Science* (Harper).

READING COURSES IN PSYCHOLOGY.

R 4. Systematic Psychology.

Heidbreder, *Seven Psychologies* (Appleton-Century). Murchison, *Handbook of General Experimental Psychology* (Clark University, 1934; chapters 6 to 11 inclusive).

The student who is aiming at high Honours is also highly recommended to read Dumas, G., *Nouveau Traité de Psychologie*, two volumes. (Paris, Alcan, 1930 and 1932).

R 5. Contemporary Psychology.

Crafts, etc., *Recent Experiments in Psychology* (McGraw-Hill). Allport, *Personality* (McGraw-Hill). Brown, *Psychology and the Social Order* (McGraw-Hill). Healy, Bronner, Bowers, *Meaning and Structure of Psychoanalysis* (Knopf).

The student will be expected to show some familiarity with current psychological literature.

R 6. Applied Psychology.

Poffenberger, *Applied Psychology* (Appleton). Viteles, *Industrial Psychology* (Cape). Murchison, *Handbook of Child Psy-*

chology. Second edition, revised. (Clark University Press. Apply to the Department concerning certain sections which may be omitted). Murphy and Newcomb, *Experimental Social Psychology* (Harper).

A student with special interests may, at the discretion of the Department, substitute other texts for those listed in R 6.

GRADUATE COURSES

Lecture courses and Directed Special Studies will be offered by the Department as needed.

POLITICAL AND ECONOMIC SCIENCE

THE SIR JOHN A. MACDONALD PROFESSOR OF POLITICAL AND ECONOMIC SCIENCE—W. A. Mackintosh, M.A., Ph.D., F.R.S.C.

(on leave of absence)*

PROFESSOR—R. G. H. Smails, B.Sc.(Econ.), A.C.A.

PROFESSOR—C. A. Curtis, B.A., Ph.D.

PROFESSOR—F. A. Knox, B.A.†

THE HARDY PROFESSOR OF POLITICAL SCIENCE—

J. A. Corry, LL.B., B.C.L., LL.M.

ASSOCIATE PROFESSOR—J. L. McDougall, M.A.

ASSOCIATE PROFESSOR—J. C. Cameron, M.Com. (Head of the Industrial Relations Section).

LECTURER—L. G. Macpherson, B.A., C.A.

LECTURER—C. H. Curtis, M.A.

REGULATIONS AND ANNOUNCEMENTS

1. Students taking one course only in this Department may choose Economics 4 or Politics 2.

2. The Department of Political and Economic Science may be regarded as a double department for purposes of the Pass Course and students may select either one or both of Economics and Politics as special subjects. Groups may be made up as follows:

- (i) Economics 4, 10, 12.
- (ii) Politics 2, 30, 36 or 37.
- (iii) Economics 4, Politics 2, and one of Economics 10, 12, 13, Politics 30, 32, 36.

For entrance to courses numbered 10 or higher, the student must qualify by obtaining Grade B in the prerequisite course.

*Special Assistant to the Deputy Minister of Finance, Ottawa.

†Half-time special Assistant in the Department of Finance, Ottawa.

3. Students applying for admission to the Honours Course must have at least Grade B standing in Economics 4 (for Economics) or Politics 2 (for Politics).

4. For information in regard to Scholarships in Political and Economic Science see page 59-60.

5. For purposes of the Honours Course, the Department of Political and Economic Science may be regarded as a double department; a student may take a Major in Economics and a Minor in Politics, or a Major in Politics and a Minor in Economics.

(a) For Honours in Economics (with History, Philosophy or Mathematics as Minor) a student must take twelve courses as follows: Economics 4, Politics 2, Economics 10, 11a, 12, 14, 15, 20, 21, 22, 25 and three Reading courses, Economics R1, R2, R3.

For Honours in Economics (with Politics as Minor) a student must take twelve courses as follows: Economics 4, 10, 11a, 12, 14, 15, 20, 21, 22, 25, three Reading courses, Economics R1, R2, R3, and an additional course in History, Philosophy or Mathematics.

For Honours in Politics (with History, Philosophy or Mathematics as Minor) a student must take twelve courses as follows: Politics 2, Economics 4, Politics 30, 32, 34, 36, 37, 38a, 39b, three Reading courses, Politics R1, R2, R3, and Philosophy 18. For Honours in Politics (with Economics as Minor) a student must take twelve courses as follows: Politics 2, 30, 32, 34, 36, 37, 38a, 39b, three Reading courses, Politics R1, R2, R3, Philosophy 18 and an additional course in History, Philosophy or Mathematics.

(b) Five courses for Minor in Philosophy, History or Mathematics, approved by the Department.

(c) Six compulsory general courses to complete the work for degree: With Economics as Major and Politics as Minor: English 1, 2; one of Philosophy 1, Latin 1, Mathematics 1; one of French 1, German 1, Greek 1; one science; one free option.

With Politics as Major and Economics as Minor: English 1, 2; Philosophy 1; Latin 1 or Mathematics 1; one of French 1, German 1, Greek 1; a science.

With Economics or Politics as Major and Philosophy as Minor: English 1, 2; one of French 1, Greek 1, German 1; Latin 1 or Mathematics 1; one science; one free option.

With Economics or Politics as Major and History as Minor: English 1, 2; one of Philosophy 1, Latin 1, Mathematics 1; one of French 1, German 1, Greek 1; one science; one free option. With Economics or Politics as Major and Mathematics as Minor: English 1, 2; Philosophy 1; one of French 1, German 1, Greek 1; one science; one free option.

6. For Honours in Public Administration a student must take:

(a) Politics 2, 30, 36, 37, 38a and 39b, and three Reading courses, Politics R1, R2, R3.

Economics 4, 10, 12, and any two of Economics 13, 15, 11a and 29b; one further course in Politics or Economics, numbered 10 or over; Philosophy 1, 2, History 3.

(b) Six compulsory general courses: English 1, 2; Latin 1 or Mathematics 1; one of French 1, German 1, Greek 1; one science; one free option.

7. Students taking Economics as one of the main subjects of the General Honours Course must take Economics 4, 10, 12, any two of Economics 13, 15, 11a and 29b and Economics Reading course 1.

Students taking Politics as one of the main subjects of the General Honours Course must take Politics 2, 30, 32, 36, 37 and Politics Reading course 1.

8. A Minor in Economics will normally consist of Economics 4, 10, 12, and any two of Economics 13, 15, 11a and 29b; a Minor in Politics will normally consist of Politics 2, 30, 32, 36, 37; but students preparing for admission to the Qualifying Examinations for the Specialist Course in History at the Ontario College of Education will make up the Minor as follows: Economics 4, Politics 2, Economics 10, and two further courses in Economics or Politics.

COURSES OF INSTRUCTION

Economics

ECONOMICS 3. ECONOMICS FOR APPLIED SCIENCE STUDENTS.

Professor Cameron.

ECONOMICS 4. INTRODUCTION TO ECONOMICS.

Economic geography; Economic history, especially of Europe; Regional studies.

Text-books:—

Bartholomew and Lyde, *The Oxford Economic Atlas* (Oxford University Press, 1937). Whitbeck and Finch, *Economic Geo-*

graphy (McGraw-Hill, 1941). Heaton, *Economic History of Europe* (Harper, 1936). Extramural students will be required to buy additional books.

Tuesday, Thursday, and Saturday at 9.

Professor Knox.

ECONOMICS 10. PRINCIPLES OF ECONOMICS.

A general course in economic analysis in which an attempt is made to develop a working knowledge of economic principles and their application. The course should ordinarily be taken at the same time as Economics 12.

Prerequisite, Grade B in Economics 4.

Text-books:

Garver and Hanson, *Principles of Economics* (Ginn & Co., revised edition, 1937). McIsaac and Smith, *Economic Analysis* (Little, Brown & Co., Boston). Assigned readings.

Monday, Wednesday, and Friday at 2.

Professor Curtis.

ECONOMICS 11a. INTRODUCTION TO STATISTICS.

An introduction to the use of statistics in the fields of economics and commerce.

Text-book:

Croxton and Cowden, *Applied General Statistics* (Prentice-Hall, 1939).

Monday, Wednesday, and Friday at 10.

Professor McDougall.

ECONOMICS 12. MONEY, BANKING, AND INTERNATIONAL TRADE.

Prerequisite, Grade B in Economics 4.

Text-books:

Chandler, *An Introduction to Monetary Theory* (Harper and Bros., 1940). Ellsworth, *International Economics* (Macmillan, 1938). Burgess, *The Reserve Banks and the Money Market* (Harper and Bros., 1936). *Report of the Royal Commission on Banking and Currency in Canada, 1933* (Ottawa: King's Printer).

Tuesday, Thursday, and Saturday at 8.

Mr. C. H. Curtis.

ECONOMICS 13. INTRODUCTION TO ACCOUNTING AND FINANCE.

An introductory study of accounting method with a related examination of some of the chief problems of corporation finance.

Text-book:—

Rorem and Kerrigan, *Accounting Method* (McGraw-Hill).

Monday, Wednesday, and Friday at 2.

Mr. Macpherson.

ECONOMICS 14. INTRODUCTION TO ACCOUNTING AND FINANCE.

This course is open only to Honours students whose major subject is Economics. It has a weight of two and one-half hours per week. Students in this course will take part of the work of Economics 13.

Mr. Macpherson.

ECONOMICS 15. MODERN ECONOMIC THEORY.

A brief study of the development of modern schools of economic thought followed by discussion of the theory of equilibrium.

Prerequisite, Economics 10.

Text-books:—

Gray, *The Development of Economic Doctrine* (Longmans).

Cassel, *Theory of Social Economy* (Harcourt, Brace).

Marshall, *Principles of Economics* (Macmillan).

Joan Robinson, *Theory of Imperfect Competition* (Macmillan).

Chamberlin, *Theory of Monopolistic Competition* (Harvard University Press).

Tuesday and Thursday at 2.

Mr. C. H. Curtis.

ECONOMICS 20. PROBLEMS OF ECONOMIC DEVELOPMENT.

A seminar course dealing with the economic problems of a dynamic society. Special attention will be given to international trade and finance and to the Canadian economy.

Prerequisite, Economics 15.

References:

Haberler, *Prosperity and Depression* (League of Nations, 1941).
Keynes, *General Theory of Employment, Interest, and Money* (Macmillan, 1936). Haberler, *Theory of International Trade* Hodge & Co., 1936).

Tuesday and Thursday at 2.30.

Professor Knox.

ECONOMICS 21. APPLIED ECONOMICS.

A study of the application of economic theory to the problems of the distribution of national wealth and income as affected by monopoly, public finance, and other public policies.

Prerequisite, Economics 15.

Text-book:

Pigou, *Economics of Welfare* (Macmillan)

Monday, Wednesday, and Friday at 10, Commerce Building.

Professor Curtis.

ECONOMICS 22. SOCIALISM.

A study of the economic principles involved in the allocation of economic resources in socialist and other directed economies. A seminar course one hour per week open only to Honours students taking a major in Economics.

Assigned readings.

Hours to be arranged.

Professor Curtis.

ECONOMICS 25. ECONOMIC HISTORY.

A study of recent economic history with especial reference to North America. A seminar course one hour per week open only to Honours students taking a major in Economics.

Assigned Readings.

Hours to be arranged.

Professor Knox.

ECONOMICS 28b. ECONOMICS OF TRANSPORTATION.

The chief interest in this course will be in the economics of railway transportation in Canada.

Text-book:

R. A. C. Henry *et al*, *Railway Freight Rates in Canada* (Ottawa, King's Printer, 1939). W. T. Jackman, *Economic Principles of Transportation* (Toronto, University of Toronto Press, 1935). D. P. Locklin, *Economics of Transportation* (Chicago, Business Publications Inc., 1935).

Assigned Readings.

Monday, Wednesday, and Friday at 9.

Professor McDougall.

ECONOMICS 29b. INDUSTRIAL RELATIONS.

A social study of employer-employee relations. Discussion will cover the main economic and human forces which give rise to labor problems and the attitudes of employers, employees, and the public thereto.

Assigned Readings.

Monday, Wednesday, and Friday at 2.

Professor Cameron.

READING COURSES IN ECONOMICS:

R 1. Economic History of Canada and the United States.

R 2. Contemporary Economic Interpretations.

R 3. Thesis.

Students registered in any of these reading courses should obtain the syllabus of readings and instructions from the Department. Thesis topics are to be selected in consultation with members of the Department.

GRADUATE COURSES**ECONOMICS 100. ECONOMIC PROBLEMS OF THE CANADIAN ECONOMY.**

A seminar course in the application of economic analysis to specific problems of the Canadian economy such as problems of particular industries, growth and fluctuation, monetary control, international trade and tariffs.

Hours to be arranged.

Professor Knox.

ECONOMICS 101. PUBLIC FINANCE.

A study of the theoretical and administrative problems of public finance with emphasis on the division of the national income between "private" and "public" uses and the effects of these uses on the size of the national income.

Hours to be arranged.

Professor Curtis.

DIRECTED SPECIAL STUDIES.

In Monopolies, Public Control of Business, Public Finance, and Local Government.

Professor Curtis.

In Economic History, Business Cycles and International Trade and Finance.

Professor Knox.

N.B. Graduate students from other universities may select also certain undergraduate courses.

Politics

POLITICS 2. INTRODUCTION TO POLITICS.

(a) The structure of the modern state—the legislature, executive and judiciary; the function of constitutions and political parties. (b) An historical outline of the development of modern political theory.

Text-books:

Blachly and Oatman, *Comparative Government* (Ronald). Crossman, *Government and the Governed* (Christophers). Additional text for extramural students: Spencer, *Government and Politics Abroad* (Holt).

Monday, Wednesday, and Friday at 10.

Professor Corry.

POLITICS 30. CANADIAN GOVERNMENT AND CONSTITUTIONAL LAW.

(Offered in 1943-44 and in alternate years).

A critical study of the governmental institutions of Canada and in particular of the British North America Act and the federal system.

Text-books:—

Dawson, *Constitutional Issues in Canada* (Oxford). Selected Cases from Cameron, *The Canadian Constitution and the Judicial Committee*. Selected Readings from the Report of the Commission on Dominion-Provincial Relations and from the Appendices thereto. Assigned Readings.

Tuesday, Thursday, and Saturday at 11.

Professor Corry.

POLITICS 32. MODERN POLITICAL THOUGHT.

(Offered in 1944-45 and in alternate years).

A study of modern political thought with reference to its philosophical and practical implications.

Text-books:

Sabine, *A History of Political Theory* (Henry Holt & Co.). Assigned Readings.

Monday, Wednesday, and Friday at 9.

Professor Corry.

POLITICS 34. INTERNATIONAL POLITICS.

This course is identical with History 27. Students will take the lectures and examination in History 27.

POLITICS 36. POLITICS OF DEMOCRACY.

(Offered in 1944-45 and in alternate years).

A survey of democratic processes with particular reference to the rôle of political parties and of group activity generally.

Text-book:—

Herring, *The Politics of Democracy* (Norton). Assigned Readings.

Tuesday, Thursday, and Saturday at 11.

Professor Corry.

POLITICS 37. PUBLIC ADMINISTRATION.

(Offered in 1943-44 and in alternate years).

The implementing of public policy through administration and the relationships thereby created between the administration and public.

Texts to be announced.

Monday, Wednesday, and Friday at 9.

Professor Corry.

POLITICS 38a. BRITISH CONSTITUTIONAL LAW.

The effect of current developments in government on the main principles of the British Constitution.

Text-books:

Jennings, *The Law and the Constitution* (2nd ed.), University of London Press). Assigned Readings.

Hours to be arranged.

Professor Corry.

POLITICS 39b. MUNICIPAL GOVERNMENT.

A survey of functions and administration of municipal government and its place in the structure of Canadian government.

Assigned Readings.

Hours to be arranged

Professor C. A. Curtis.

READING COURSES IN POLITICS:

R 1. The Government of Great Britain.

F. A. Ogg, *English Government and Politics* (Macmillan). H. J. Laski, *Parliamentary Government in England* (Allen). Jennings, *Cabinet Government* (Cambridge). Jennings, *Parliament* (Cambridge). K. B. Smellie, *One Hundred Years of British Government* (Duckworth).

R 2. The British Commonwealth.

Dawson, *Development of Dominion Status* (Oxford). Hancock, *Survey of British Commonwealth Affairs* (Oxford). Vinton, *Great Britain. An Empire in Transition* (John Day). Chatham House Group, *The British Empire* (2nd ed.) (Oxford).

R 3. Thesis.

Subject to be selected after consultation with members of the Department.

Commerce and Administration.

(See also calendar of the School of Commerce and Administration).

COMMERCE 50a. INDUSTRIAL MANAGEMENT.

A study of the application of the principles of management in industry. Special attention is directed to employer-employee relations.

Assigned Readings.

Monday, Wednesday, and Friday at 2.

Professor Cameron.

COMMERCE 52. PRINCIPLES OF MARKETING.

A study of marketing functions, organization and policies from the standpoint of the business man.

Text-book:

Phillips, *Marketing* (Houghton-Mifflin). Learned, *Problems in Marketing* (McGraw-Hill).

Tuesday, Thursday, and Saturday at 11.

Mr. C. H. Curtis.

COMMERCE 54. BUSINESS FINANCE.

. A study of the economic problems of the corporate enterprise, throughout its life cycle.

Prerequisites—Economics 12 and Commerce 63.

General Reading:

Buchanan, N. S., *The Economics of Corporate Enterprise* (Holt). Dewing, *Financial Policy of Corporations* (Ronald Press). Lincoln, *Applied Business Finance*, McGraw-Hill. Guthman, *Analysis of Financial Statements* (Prentice-Hall). Crumbaker, *Organizing and Financing a Modern Business* (Wylie). Gerstenberg, *Financial Organization and Management* (Prentice-Hall).

Monday, Wednesday, and Friday at 11.

Professor McDougall.

COMMERCE 59. BUSINESS INVESTIGATION AND RESEARCH.

An introduction to research methods. The student is required to select a topic and, under direction, to investigate and report upon it.

Hours to be arranged.

Professor McDougall.

COMMERCE 60. COMMERCIAL LAW.

A study of the elements of commercial law, including the general principles of the law of contract and the law relating to sale of goods, negotiable instruments, agency, partnerships and companies.

General Reading:

Anson, *Law of Contracts* (Clarendon Press). Jenks, *Book of English Law* (John Murray).

Special topics:

Anger, *Digest of Canadian Mercantile Law* (Commercial Text-Book Co.). Caporn, *Cases on Contract* (Stevens and Sons). Falconbridge, *Law of Negotiable Instruments in Canada* (Ryerson). Fraser, *Handbook on Canadian Companies* (Carswell). *The [Dominion] Companies Act, 1934*, S.C. 1934, Chapter 33. *The [Ontario] Companies Act, R.S.O. 1937*, Chapter 251.

Monday, Wednesday, and Friday at 8.

Professor Smails.

COMMERCE 63. ELEMENTS OF ACCOUNTING

An introductory study of the principles of accounting. It involves practice in writing up the various books of record and includes the theory and practice involved in the preparation of the operating statements and balance sheets of the various types of business organization.

Smails and Walker, *Accounting Principles and Practice*, 5th ed. (Ryerson).

Texts for extramural students: Walker, *Accounting Principles and Bookkeeping Procedure, Introductory and Advanced Courses* (Gregg Publishing Co.).

Monday, Wednesday, and Friday at 8.

Mr. Macpherson.

COMMERCE 64. INTERMEDIATE ACCOUNTING.

A course in which the studies of Commerce 63 are carried to a more advanced stage and some further problems are considered.

Reading:

Smails and Walker, *Accounting Principles and Practice* (fifth edition (Ryerson). Paton, *Essentials of Accounting* (Macmillan). Finney, *Principles of Accounting*, Vols. I and II (Prentice-Hall).

Tuesday, Thursday, and Saturday at 10.

Professor Smails.

COMMERCE 66b. COST ACCOUNTING.

This course presents the principles and methods of cost accounting.

Dohr, Inghram, and Love, *Cost Accounting* (Ronald).

Tuesday, Thursday, and Saturday at 9.

Professor Smails.

COMMERCE 67a. AUDITING AND INTERNAL CHECK.

A study of systems of internal check, the functions of internal and external auditors, and audit procedure generally.

Reading: Smails, *Auditing, third edition* (Pitman). Montgomery, *Auditing Theory and Practice*, sixth edition (Ronald).

Tuesday, Thursday, and Saturday at 9.

Professor Smails.

RELIGIOUS KNOWLEDGE

PROFESSOR—Rev. H. A. Kent, M.A., D.D., F.R.S.A.

LECTURER—Rev. S. MacLean Gilmour, B.D., Ph.D.

RELIGIOUS KNOWLEDGE 1. OLD TESTAMENT LITERATURE AND HISTORY.

The beginnings of Hebrew literature; ballads; war-songs; folklore and Saga; historical prose; the literary sources of the Hexateuch and historical books; the origin and development of prophecy; Hebrew poetry and wisdom literature; the Apocryphal and Apocalyptic writings. Hebrew political history down to the Maccabean period, and the relation of the Hebrew people to the surrounding nations of antiquity.

Offered in 1944-1945, but not in 1943-1944.

Text-books:

Bewer, *Literature of the Old Testament* (Columbia University Press). Dinsmore, *The English Bible as Literature* (Houghton Mifflin). Other reading to be assigned.

RELIGIOUS KNOWLEDGE 2. NEW TESTAMENT LITERATURE AND HISTORY.

Origin of New Testament writings: Codices and Manuscripts; the Latin Bible; the English Versions; the Gospels studied as the literary sources of the teaching of Jesus; the Synoptic and Johannine Problems; the life and letters of St. Paul; the Christian Apocalypses; the social and religious conditions in the Roman Empire and the spread of Christianity up to the end of the first century.

Offered in 1943-1944 but not in 1944-1945.

Text-books:

Moffatt, *New Translation of the New Testament*. Nock, *St. Paul* (Home University Library). Scott, *The Literature of the New Testament* (Columbia University Press). Other reading to be assigned.

Tuesday, Thursday, and Friday at 1.

Principal Kent.

RELIGIOUS KNOWLEDGE 3. THE CHIEF LIVING RELIGIONS OF THE WORLD.

The origins, principles, practices, literature and geographical expansion of Hinduism, Buddhism, Sikhism, Confucianism, Shinto, Judaism, Zoroastrianism, Islam and Christianity; the strength and weakness of the various faiths; their present vitality; areas of possible or actual conflict and coöperation.

Offered in 1944-1945, but not in 1943-1944.

Text-books:

Hume, *The World's Living Religions* (Scribner's); other reading to be assigned.

Tuesday, Thursday, and Saturday at 10.

Dr. Gilmour.

RELIGIOUS KNOWLEDGE 4. CHRISTIANITY WITHIN WESTERN CIVILIZATION.

The impact of Christianity on its environment, and of its environment on Christianity. The effect of Christianity on the political, economic, social, intellectual and religious life of the Graeco-Roman world; the effect of Christianity on social customs and relations, and on political theory, education, scholarship and literature during the mediaeval period; the social effects of the Protestant and Catholic Reformations; Christianity and the expansion of European peoples after the discovery of the New World; Christianity and its environment in modern times; the strength and weakness of present-day Christianity; the challenge to Christianity of new paganism.

Prerequisite: Religious Knowledge 1 or 2.

Offered in 1943-1944 but not in 1944-1945.

Text-books:

Baker *et al*, *A Short History of Christianity* (Univ. of Chicago Press). Latourette, *Anno Domini* (Harpers).

MATHEMATICS

THE N. F. DUPUIS PROFESSOR OF MATHEMATICS—

J. Matheson, M.A.

PROFESSOR—C. F. Gummer, M.A., Ph.D.

PROFESSOR—N. Miller, M.A., Ph.D.

ASSISTANT PROFESSOR—I. Halperin, M.A., Ph.D., (on leave of absence)*

ASSOCIATE PROFESSOR—K. P. Johnston, B.A., B.Sc.

ASSISTANT PROFESSOR—G. L. Edgett, M.A., Ph.D.

REGULATIONS AND ANNOUNCEMENTS

1. Mathematics 1, 2, 3a, and 7b, and Astronomy 1 are pass courses, and are open to all who have passed the prerequisites.

2. Students selecting Mathematics as one of the main subjects for a Pass degree will take Mathematics 1, 2, 3a, and 7b; or Mathematics 1 and 2 and Astronomy 1. See also section 4 below.

3. Students are advised not to attempt an Honours Course in Mathematics unless they have obtained high standing in the preceding pass course. Grade B in such a course is the minimum standing on which a student is allowed to proceed.

4. Students who have a standing of at least Grade B in Mathematics 1, or second class in the Mathematics of Honour Matriculation, and who intend to enter the Honours Course in Mathematics, should take courses 2, 10a, and 11b in the same year. They must obtain a standing of at least Grade B in these courses if they wish to proceed.

Students who have obtained credit in Mathematics 1, 2, 10a, and 11b, and are not proceeding with the Honours Course, may count these to make Mathematics one of the main subjects for a Pass degree.

Students who have taken Mathematics 10a and 11b and wish to proceed to Honours must obtain through the Registrar permission to do so.

*Lieutenant, Royal Canadian Artillery.

5. High School Specialist Certificates in Mathematics, and Mathematics and Physics.

Candidates for admission to the Qualifying Examinations for the Specialist Course in Mathematics at the Ontario College of Education will take the regular Honours Course in Mathematics with a Minor to be selected on the advice of the Department of Mathematics.

Candidates for admission to the Qualifying Examinations for the Specialist Course in Mathematics and Physics at the Ontario College of Education must take the regular Honours Course in Mathematics and Physics.

6. For Honours in Mathematics a student must take:

(a) **Twelve courses for the Major, as follows:**

Mathematics 1, 2, 10a, 11b, 12a, 14a, 15b, 16b, the courses outlined in Groups A and B in the syllabus given below and three reading courses in Mathematics, R 1, R 2, R 3.

(b) **Five courses for a Minor.** The minor is usually in Physics or Economics; but with the consent of the Board of Studies, on the recommendation of the Department of Mathematics, a student may take as his minor a subject other than Physics or Economics.

(c) **Six general courses outside of the major and minor subjects:—**

(i) English 1, 2.

(ii) French 1, or German 1, or Greek 1.

(iii) Philosophy 1.

(iv) One free option.

(v) Course 1 in any one of the sciences.

If the minor selected is Physics the course in (v) will be replaced by a course freely chosen in any subject other than Mathematics or Physics.

7. The work for a major in Mathematics will normally be covered by the student in five years from Pass Matriculation or in four years from Honour Matriculation. The normal distribution of the work over five years is as follows:—

1st year—Mathematics 1.

2nd year—Mathematics 2, 10a, 11b.

3rd year—Mathematics 12a, 14a, 15b, 16b, and Reading course 1.

4th year—The courses of Group A, or of Group B, and Reading course 2.

5th year—The courses of Group B, or of Group A, and Reading course 3.

The work of Group A and that of Group B will be offered in alternate years. The student will take them in the order in which they are offered during his Course.

It is advisable for the student to aim at completing the minor subject at least one year before the time of graduation.

When in the work of the first two years a student has shown exceptional ability he may be permitted to take the lectures in Group A or in Group B in his third year and to arrange his reading in such a way that he may complete the whole Course in four years instead of five.

8. For information in regard to scholarships in Mathematics, see p. 60-61.

COURSES OF INSTRUCTION

MATHEMATICS 1. TRIGONOMETRY, ANALYTIC GEOMETRY, AND ALGEBRA.

McGraw-Hill Five-place Logarithmic and Trigonometric Tables.
Brink, *A First Year of College Mathematics* (Appleton-Century).

Monday, Wednesday, and Friday at 8.

Mr. Staples.

MATHEMATICS 2. DIFFERENTIAL AND INTEGRAL CALCULUS.

Granville, Smith and Longley, *Elements of Differential and Integral Calculus, revised edition* (Ginn).

Prerequisite, Mathematics 1.

Tuesday, Thursday, and Saturday at 8.

Professors Miller and Edgett.

MATHEMATICS 3a. MODERN SYNTHETIC GEOMETRY.

Shively, *Modern Geometry* (Wiley).

Monday, Wednesday, and Friday at 10.

Professor Gummer.

MATHEMATICS 7b. MATHEMATICS OF INVESTMENT.

Hart, *Mathematics of Investment*, with tables (Heath).

Prerequisite, Mathematics 1.

Monday, Wednesday, and Friday at 10.

Professor Gummer.

ASTRONOMY 1. A COURSE IN DESCRIPTIVE ASTRONOMY.

Baker, *Astronomy* (van Nostrand), (3rd ed.). Kingston, *Star Guide*.

Tuesday, Thursday, and Saturday at 9.

Professor Johnston.

MATHEMATICS 10a. ALGEBRA.

Prerequisite, Mathematics 1.

Wilson and Warren, *An Intermediate Algebra* (Oxford University Press).*Monday, Wednesday, and Friday at 11.*

Professor Matheson.

MATHEMATICS 11b. ANALYTIC GEOMETRY AND CALCULUS.

Fine and Thompson, *Coordinate Geometry* (Macmillan). Granville, Smith and Longley, *Elements of Differential and Integral Calculus* (Ginn).*Monday, Wednesday, and Friday at 11.*

Professor Matheson.

MATHEMATICS 12a. DETERMINANTS AND THEORY OF EQUATIONS.

Prerequisites, Mathematics 2, 10a.

Dickson, *New First Course in the Theory of Equations* (John Wiley & Sons).*Monday, Wednesday, and Friday at 8.*

Professor Miller.

MATHEMATICS 14a. SPHERICAL TRIGONOMETRY AND ASTRONOMY.

In connection with this course some work will be done in the observatory.

Prerequisite, Mathematics 2.

Tuesday, Thursday, and Saturday at 8.

Professor Johnston.

MATHEMATICS 15b. ANALYTIC SOLID GEOMETRY.

Open to students who have taken Mathematics 12a.

Snyder and Sisam, *Analytic Geometry of Space* (Holt).*Monday, Wednesday, and Friday at 8.*

Professor Edgett.

MATHEMATICS 16b. DIFFERENTIAL EQUATIONS.

Prerequisites, Mathematics 2, 10a, and 11b.

Miller, *First Course in Differential Equations* (Oxford Press).*Tuesday, Thursday, and Saturday at 8.*

Professor Gummer.

HONOURS GROUP A. (Not offered in 1943-44).

Six days a week at 9.

MATHEMATICS 17t. ALGEBRA AND CALCULUS OF DIFFERENCES.

Bôcher, *Introduction to Higher Algebra* (Macmillan).

Professor Gummer.

MATHEMATICS 18t. MODERN SYNTHETIC GEOMETRY.

Professor Matheson.

MATHEMATICS 19t. ADVANCED CALCULUS.

Fite, *Advanced Calculus* (Macmillan).

Professor Miller.

HONOURS GROUP B.

Six days a week at 9.

MATHEMATICS 20t. PROBABILITY AND STATISTICS.

Uspensky, *Introduction to Mathematical Probability* (McGraw-Hill). Camp, *Elementary Statistics* (D. C. Heath).

Professor Edgett.

MATHEMATICS 21t. ADVANCED ANALYTIC GEOMETRY.

Professor Gummer.

MATHEMATICS 22t. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE.

Osgood, *Functions of a Complex Variable* (Stechert).

Professor Miller.

READING COURSES IN MATHEMATICS:

R 1. D. E. Smith, *Essentials of Solid Geometry* (Ginn).

From his reading the student should acquire a knowledge of the theorems of the subject and skill in the solution of problems.

R 2. A course in reading and problems. Details to be arranged.

R 3. H. N. Wright, *Theory of Numbers* (Wiley).

GRADUATE COURSES

Graduate courses for the degree of M.A. will be selected from the following:

MATHEMATICS 100a or b. THEORY OF INFINITE SERIES.

Knopp, *Theory and Application of Infinite Series*.

MATHEMATICS 101a or b. THEORY OF FUNCTIONS OF A REAL VARIABLE.

MATHEMATICS 102a or b. MODERN HIGHER ALGEBRA.

Bôcher, *Introduction to Higher Algebra* (Macmillan).

MATHEMATICS 103a or b. DIFFERENTIAL GEOMETRY.

Eisenhart, *Differential Geometry* (Ginn).

MATHEMATICS 104a or b. THEORY OF NUMBERS.

MATHEMATICS 107a or b. TOPICS IN DIFFERENTIAL EQUATIONS.

MATHEMATICS 108a or b. ADVANCED MATHEMATICAL STATISTICS.

MATHEMATICS 109a or b. ABSTRACT SPACES.

BACTERIOLOGY

PROFESSOR—G. B. Reed, M.A., B.Sc., Ph.D., F.R.S.C.

REGULATIONS AND ANNOUNCEMENTS

1. Students on a Pass Course taking Biology as a Major may take as a part of the Biology prescription Bacteriology 10.

2. Students taking Biology for Honours may include one or two courses in Bacteriology as part of the Biology prescription. They should consult the professor.

COURSES OF INSTRUCTION

BACTERIOLOGY 10.

An introductory course in general bacteriology, structure and physiology of bacteria, a general survey of the relationship of bacteria to food problems, the soil, industry and medicine.

Prerequisites: 2 courses in Biology and 2 courses in Chemistry.

Lectures—Monday and Wednesday at 10.

Laboratory—Two periods per week, Monday 4-6, Friday 1-3

BACTERIOLOGY 13. PATHOGENIC BACTERIOLOGY.

A systematic study of the disease producing bacteria, infection and immunity.

Hours to be arranged.

BACTERIOLOGY 20. RESEARCH IN BACTERIOLOGY.

BIOCHEMISTRY

CRAINE PROFESSOR OF BIOCHEMISTRY—R. Gordon Sinclair, B.A., Ph.D.

ASSOCIATE PROFESSOR—J. F. Logan, A.M., Ph.D., F.C.I.C.

REGULATIONS AND ANNOUNCEMENTS

For Honours in Biochemistry a student must take twenty-four courses, as follows:

(a) Chemistry 1, 2, 10, 12, 13, 14; Biology 1, 10, 16, 21, 26; Biochemistry 18 and 20; one optional course to be selected from Chemistry 22, 24 and 25, and Bacteriology 10.

Three Reading courses: two must be in Biochemistry, the third may be in Biology, Chemistry, or Biochemistry.

(b) Compulsory general courses to complete the work for degree: English 1, 2; French 1 or German 1; Philosophy 1; Mathematics 1, 2; Physics 1.

(c) One general examination in Biochemistry and one in Chemistry.

Students taking Honours in Biochemistry must consult the Head of the Department before registering for any course in Biochemistry.

COURSES OF INSTRUCTION

BIOCHEMISTRY 16. GENERAL AND COMPARATIVE BIOCHEMISTRY.

A study of the chemical principles fundamental to all living things and the development of chemical processes and compounds characteristic of various animals and plants.

Prerequisite—Biology 1, 10; Chemistry 1, 2, 10, 12.

Texts: To be announced.

Lectures—Monday and Friday at 11.

Laboratory—Monday, 1-4.

Professor Logan.

BIOCHEMISTRY 18. ANIMAL BIOCHEMISTRY.

A study of the composition and function of the compounds occurring in the animal organism. Particular attention is paid to the chemical basis of normal physiological processes in the human organism and of pathological derangements.

Prerequisite—Biology 1, 10; Chemistry 1, 2, 10, 12.

Texts:—

Williams, *A Textbook of Biochemistry*. Bodansky, *Introduction to Physiological Chemistry*. Hawk and Bergeim, *Practical Physiological Chemistry*. Bodansky and Bodansky, *Biochemistry of Disease*.

Lectures—Thursday and Friday at 1.

Laboratory—Thursday and Friday, 2-4.

Professor Sinclair.

BIOCHEMISTRY 20. ADVANCED BIOCHEMISTRY.

An intensive study of certain fields of biochemistry, e.g. the proteins, the carbohydrates, the lipids, enzymes, intracellular oxidations, the vitamins.

Prerequisite—Biochemistry 18.

Texts: To be announced.

Hours to be arranged.

Professor Sinclair.

READING COURSES IN BIOCHEMISTRY:**R 1. Nutrition.****R 2. Enzymes.**

At the beginning of their first year of work in the Department of Biochemistry, students will be assigned a list of the books and papers to be read.

R 3. After consultation with the Biochemistry staff, the student may elect either Biology R 2, Chemistry R 2, or research in Biochemistry.

BIOLOGY

THE JOHN ROBERTS ALLAN PROFESSOR OF BIOLOGY—R. O. Earl,
B.A., S.M., Ph.D.

ASSOCIATE PROFESSOR—John Stanley, M.A., Ph.D.

(on leave of absence)*

ASSISTANT PROFESSOR—G. Krotkov, B.S.A., M.A., Ph.D.

LECTURER—H. W. Curran, B.S., M.A., Ph.D.

REGULATIONS AND ANNOUNCEMENTS

1. Biology 1 is prerequisite to all other courses in this Department.
2. Candidates for Honours with major or minor in Biology may take Biology 10 and 11 or 10 and 16 in the same year.
3. Students selecting Biology as one of their chief subjects on a Pass Course will take Biology 1, 10 and 16.
4. During the present emergency a course in embryology (Biology 20) may be taken in place of Biology 17 or 18. Details will be arranged with prospective students.
5. For information in regard to Scholarships see page 61.
6. *High School Specialist Certificate in Science.*

Candidates for admission to the Qualifying Examinations for the Specialist Course in Science at the Ontario College of Education will take the Honours Course in General Science for Teachers (page 85), or the regular Honours Course in two of Biology, Chemistry, Physics, with two courses from the third Science offered in place of free options, or in substitution for courses ordinarily prescribed.

N.B. With Chemistry as Major, Biology as Minor, Physics 1 will be taken in place of a free option and Physics 2 will be substituted for one of Chemistry 22, 24, 25.

*Flying Officer, Royal Canadian Air Force.

With Biology as Major, Chemistry as Minor, Physics 1 will be taken as one of the courses in the Minor, and Physics 2 will be taken as a supporting course, or in place of a free option as prescribed under the Departmental Prescription in Biology.

With Chemistry as Major, Physics as Minor, Biology 1 will be taken in place of a free option, and Biology 10 or 16 will be substituted for one of Chemistry 22, 24, 25.

With Physics as Major, Chemistry as Minor, Biology 1 and 10 or 16 will be taken in place of free options.

7. For Honours in Biology a student must take:

1. *Course for Teachers.*

- (a) Twelve courses for Major as follows:
Biology 1, 10, 11, 12, 16, 17, 18, 19, 21.
Three reading courses in Biology, R 1, R 2, R 3.
- (b) Five courses for Minor: Chemistry 1, 2, 12, Biochemistry 16, Physics 1.
- (c) Six compulsory general courses to complete the work for degree: English 1, 2, French 1 or German 1 or Greek 1, Philosophy 1, Mathematics 1, one free option. (See Regulation 6.)

2. *Course for Botanists.*

- (a) Twelve courses for Major as follows:
Biology 1, 10, 11, 12, 21, 31, 45, with two supporting courses. Bacteriology 10 and Physics 2.
Three reading courses in Biology, R 1, R 2, R 3.
- (b) Five courses for Minor: Chemistry 1, 2, 12, Biochemistry 16, Physics 1.
- (c) Six compulsory general courses as stated in 1(c).

3. *Course for Zoologists.*

- (a) Twelve courses for Major as follows:
Biology 1, 16, 17, 18, 19, 26, 45, with two supporting courses Bacteriology 10 and Physics 2.
Three reading courses in Biology R 1, R 2, R 3.
- (b) Five courses for Minor: Chemistry 1, 2, 12, Biochemistry 16, Physics 1.
- (c) Six compulsory general courses as stated in 1(c).

COURSES OF INSTRUCTION

BIOLOGY 1. GENERAL BIOLOGY.

A scientific study of plants and animals. The subject is treated in a comprehensive way with emphasis upon generalizations and principles. Laboratory study of examples.

Text-book: Mavor, *General Biology* (Macmillan).
Lectures—Monday, Wednesday, and Friday at 8.
Laboratory—Monday or Wednesday, 1-3.

Professor Earl.

BIOLOGY 10. GENERAL BOTANY.

The fundamental facts and principles of plant life. A careful study of form, structure and reproduction of representatives of the principal groups. Attention is given to life processes, particularly in the higher plants.

Prerequisite—Biology 1.

Text-book: Brown, *The Plant Kingdom* (Ginn).
Lectures—Tuesday and Thursday at 9.
Laboratory—Tuesday, 1-4.

Professor Krotkov.

BIOLOGY 11. PHANEROGAMIC BOTANY.

Taxonomy, morphology, life histories and evolution of seed plants. Special attention is given to representatives of the local flora.

Prerequisite—Biology 10.

Offered in 1944-45, but not in 1943-44.

Professor Krotkov.

BIOLOGY 12. CRYPTOGAMIC BOTANY.

The lower plants treated as described for the seed plants in Biology 11.

Prerequisite—Biology 10.

Offered in 1943-44, but not in 1944-45.

Text-book:

Smith, *Cryptogamic Botany* (McGraw-Hill).
Lectures—Monday and Wednesday at 9.
Laboratory—Thursday, 1-4.

Professor Krotkov.

BIOLOGY 16. COMPARATIVE VERTEBRATE ANATOMY.

This course deals with the comparative anatomy and development of the various systems in the vertebrate animals, with special attention to the study of mammalian anatomy.

Prerequisite—Biology 1.

Text-book: Neal and Rand, *Comparative Anatomy* (Blakiston).
Lectures—Tuesday and Thursday at 10.
Laboratory—Monday, 1-4.

Dr. Curran.

BIOLOGY 17. COMPARATIVE INVERTEBRATE ANATOMY AND TAXONOMY.

A careful study of the comparative anatomy, evolution, development and taxonomy of representatives of the leading phyla of invertebrate animals *other than the Arthropoda*. Instruction in the technique of preparation of specimens of invertebrates.

This course is not open to pass students.

Text-book: Borradaile *et al*, *The Invertebrata* (Cambridge).

Lectures—Tuesday and Thursday at 9.

Laboratory—Tuesday, 1-4.

Not offered in 1943-44.

Professor Stanley.

BIOLOGY 18. GENERAL ENTOMOLOGY.

A study of the structure, biology and classification of insects with special reference to the characteristics of the orders and more important families, and to the habits of representative species.

Lectures and Laboratory—Friday, 2-5.

Other laboratory hours to be arranged.

Dr. Wilkes.

BIOLOGY 19. ECONOMIC VERTEBRATE ZOOLOGY.

A study is made of the more important vertebrate animals from an economic aspect such as commercial and game fishes, migratory waterfowl and game birds, significant fur-bearing animals. Emphasis is placed on conservation methods.

Prerequisite—Grade B in Biology 16.

(Offered in 1943-44, but not in 1944-45).

Lectures—Tuesday and Thursday at 8.

Laboratory—Wednesday, 1-4.

Dr. Curran.

BIOLOGY 21. PLANT PHYSIOLOGY.

A general study of the following topics: carbon and nitrogen metabolism, nutrition, permeability, water-relations and growth.

Prerequisites—Biology 10, Chemistry 12.

Lectures—Tuesday and Thursday at 8.

Laboratory—Hours to be arranged.

Professor Krotkov.

BIOLOGY 26. ANIMAL PHYSIOLOGY.

Study of the general principles of Physiology, and the physiological investigation of blood, circulation, respiration, muscle, and nervous system. The physiology of digestion, metabolism, excretions, and internal secretions.

Prerequisite—Biology 16.

Dr. Melvin.

BIOLOGY 31. PLANT ECOLOGY.

A study of the origin and development of plant associations in relation to environment. The relations of plants to latitude, altitude, climate, and other distributive factors. Ecological anatomy. Laboratory and field work.

Text-book:

Weaver and Clements, *Plant Ecology*, 2nd edition (McGraw-Hill).

Prerequisite—Biology 11.

Not offered in 1943-44.

Professor Earl.

BIOLOGY 45. EVOLUTION AND GENETICS.

A consideration of data and concepts of organic evolution; the principles of genetics; exercises on variation and heredity in plants and animals.

Text-book:

Snyder, *Principles of Heredity* (Heath).

Lectures—Tuesday, Thursday, and Saturday at 10.

Professor Earl.

READING COURSES IN BIOLOGY.**R 1. Biological Theories.**

Shull, *Evolution* (McGraw-Hill). Darwin, *On the Origin of Species*. Singer, *A Short History of Biology* (Oxford). Bertalanffy and Woodger, *Modern Theories of Development* (Oxford).

Professor Earl.

R 2. General Physiology.

C. G. Rogers, *Textbook of Comparative Physiology* (McGraw-Hill). W. M. Bayliss, *Principles of General Physiology* (Longmans, Green). W. O. James, *An Introduction to Plant Physiology* (Oxford).

Professor Krotkov.

R 3. Biological Aggregations.

Pearse, *Animal Ecology* (McGraw-Hill). W. C. Allee, *Animal Growth and Social Growth* (Williams and Wilkins). Elton, *Animal Ecology* (Macmillan). Wheeler, *Social Life among the Insects* (Harcourt Brace and Co.). Sears, *Deserts on the March* (Simon and Schuster). U.S. Nat. Park Service, *Fading Trails* (MacMillan).

Dr. Curran.

With the consent of the Department, a thesis may be substituted for either R 2 or R 3 but not for R 1. Application for permission to do this must be made to the Department within two weeks of the opening of the fall term.

GRADUATE COURSES

These courses will be given only when feasible and when suitably trained students apply.

BIOLOGY 112. ADVANCED PLANT PHYSIOLOGY.

A course in selected topics in the field of plant physiology.

Prerequisite—Biology 21.

Hours to be arranged.

Professor Krotkov.

BIOLOGY 113. COLD STORAGE AND GAS STORAGE.

Principles and technique in storage of fruits and vegetables. Metabolism of fruit during development on the plant and in storage.

Prerequisite—Biology 21.

Hours to be arranged.

Professor Krotkov.

BIOLOGY 115. CYTOLOGY.

The structure and life-history of the cell.

Laboratory work, reading and conferences.

Prerequisite—Biology 45.

Hours to be arranged.

Professor Earl.

CHEMISTRY

PROFESSOR—J. A. McRae, M.A., Ph.D., F.I.C., F.R.S.C.

PROFESSOR OF INDUSTRIAL CHEMISTRY—L. F. Goodwin, F.C.G.I.,
Ph.D., F.I.C.

ASSOCIATE PROFESSOR—Grenville B. Frost, B.A., Ph.D.

ASSOCIATE PROFESSOR—L. A. Munro, M.A., Ph.D., F.C.I.C.

ASSOCIATE PROFESSOR—J. F. Logan, B.A., A.M., Ph.D., F.C.I.C.

ASSOCIATE PROFESSOR—Roy L. Dorrance, M.A., F.C.I.C.

LECTURER—E. G. Taylor, B.Sc., Sc.M., Ph.D., A.I.C.

LECTURER—R. N. Jones, M.Sc., Ph.D.

CANADIAN INDUSTRIES LIMITED FELLOW—R. Y. Moir, M.A.

REUBEN WELLS LEONARD FELLOW—L. M. Wise, B.A.

MILTON HERSEY FELLOW—W. M. Maynard, B.Sc.

WILLIAM NEISH FELLOW—

DEMONSTRATORS—A. G. Stewart, B.A.

C. Gogek, B.Sc.

REGULATIONS AND ANNOUNCEMENTS

1. Chemistry 1 and 2 are prerequisite to all other courses in Chemistry. Students should not attempt Chemistry 1 unless they have taken Junior Matriculation Chemistry. Students entering with standing in Upper School Chemistry or its equivalent will take Chemistry 2.

2. Students offering Chemistry as one of the main subjects for a Pass degree will take Chemistry 1, 2, and 10. For entrance to all other courses in Chemistry Grade B in Chemistry 2 is necessary.

3. For Honours in Chemistry* a student must take:

(a) Twelve courses for Major as follows:

Chemistry 1, 2, 10, 12, 13, 14, 17, 22, 24 or 25. Biochemistry 16 may be substituted for Chemistry 17.

Mathematics 2 and two Reading courses in Chemistry, R 1, and one of R 2, R 3, R 4.

(b) Five courses for Minor: when the Minor is in Physics a student will take: Physics 1, 2, 11, 14a, 13b and Mathematics 10a and 11b. When the Minor is in Biology, a student will take five courses in Biology to be selected in consultation with the Head of the Department of Biology. When the Minor is in Geology and Mineralogy a student will take: Geology 1, Mineralogy 1, and Geology 10a, 10b, 11, 15 or Mineralogy 10a, 10b, 11, 12.

*This prescription of courses applies only to students entering in 1943. Those who have already started on their Course will follow the prescription as outlined in the calendar of 1942-43, except that Chemistry 10 will be taken as a pass class instead of Chemistry 2.

(c) Six compulsory general courses to complete the work for degree: English 1, 2, French 1 or German 1 or Greek 1, Philosophy 1, Mathematics 1, one free option (Physics 1 unless a student already has credit for this course or is taking it elsewhere).

4. When Chemistry is the Minor associated with Biology as Major, the Minor will consist of Chemistry 1, 2, 10, 12, and Biochemistry 16.

When Chemistry is the Minor associated with Geology or Mineralogy as Major, the Minor will consist of Chemistry 1, 2, 10, 13 and 14. Mathematics 2 will be taken in place of one of the reading courses of the Major.

5. Students taking Honours in Chemistry must consult the Head of the Department after they have passed Chemistry 2.

6. High School Specialist Certificate in Science.

Candidates for admission to the Qualifying Examinations for the Specialist Course in Science at the Ontario College of Education will take the Honours Course in General Science for Teachers (p. 85), or the regular Honours Course in two of Biology, Chemistry, Physics, with two courses from the third Science offered in place of free options, or in substitution for courses ordinarily prescribed.

N.B. With Chemistry as Major, Biology as Minor, Physics 1 will be taken in place of a free option and Physics 2 will be substituted for one of Chemistry 22, 24, 25.

With Biology as Major, Chemistry as Minor, Physics 1 will be taken as one of the courses in the Minor, and Physics 2 will be taken as a supporting course, or in place of a free option as prescribed under the Departmental prescription in Biology.

With Chemistry as Major, Physics as Minor, Biology 1 will be taken in place of a free option, and Biology 10 or 15 will be substituted for one of Chemistry 22, 24, 25.

With Physics as Major, Chemistry as Minor, Biology 1 and 10 or 15 will be taken in place of free options.

7. For information in regard to Scholarships in Chemistry, see page 62.

COURSES OF INSTRUCTION

CHEMISTRY 1. GENERAL CHEMISTRY.

The student entering on this course should already have passed Junior Matriculation Chemistry.

The fundamental theories, laws and principles of chemistry are discussed and applied in the study of the principal non-metals and some of the more important metals and their compounds.

Texts:—to be announced.

Lectures—Tuesday, Thursday, Saturday at 10.

Laboratory—Thursday, 1-3.

Dr. Jones.

CHEMISTRY 2. GENERAL CHEMISTRY.

A more detailed and advanced course in general chemistry than Chemistry 1. It will be open only to those who have passed Chemistry 1 or who have standing in Upper School Chemistry or its equivalent.

The laws and theories of chemistry with particular attention to both their qualitative and quantitative applications. The chemistry of the principal non-metals and metals and their more important classes of compounds. In the laboratory numerous illustrative quantitative and qualitative exercises will be performed. The student will be expected to work each week a set of assigned problems.

Text-book: To be announced.

Lectures—Monday, Wednesday, and Friday at 10.

Laboratory—Thursday, 1-4.

Professor McRae.

CHEMISTRY 10. QUALITATIVE ANALYSIS.

The lectures deal with the chemistry of metals and the theory of analytical chemistry. The modern concept of the structure of matter is related to analytical behaviour. The development and application of the laws of equilibrium and solutions are emphasized.

The laboratory work consists of the systematic analysis of basic and acid ions leading to the analysis of alloys, salt mixtures, minerals and various commercial products.

Prerequisite—Chemistry 1 and 2.

Text:

Engelder, *Semimicro Qualitative Analysis* (Wiley).

Reference Texts:

Treadwell and Hall, Vol. I (Wiley). Engelder, *Calculations of Qualitative Analysis* (Wiley). Middleton and Willard, *Semimicro Qualitative Analysis* (Prentice-Hall). Richardson and Scarlett, *General College Chemistry* (Henry Holt).

Lectures—Tuesday and Thursday, 11-12.

Laboratory—Friday, 1-4.

Dr. Jones.

CHEMISTRY 3. QUANTITATIVE ANALYSIS.—Pass Course.

(Open to pass students who have passed Chemistry 1 and 2). This is an elementary course designed to illustrate the fundamental procedures of Quantitative Analysis.

Text: Talbot, Quantitative Chemical Analysis (Macmillan).

Lecture—Thursday at 1.

Laboratory—Tuesday, 1-5, in room 207.

Professor Dorrance.

CHEMISTRY 12. ORGANIC CHEMISTRY.

Students in Biology or Biochemistry taking Chemistry as Minor may take Chemistry 10 and 12 in the same year.

An introductory course on the chemistry of the compounds of carbon. The principal classes of aliphatic and aromatic compounds are studied to illustrate both their theoretical and practical importance. In the laboratory a number of organic compounds is prepared to illustrate typical operations employed in organic chemistry.

Texts:

Conant, The Chemistry of Organic Compounds (Macmillan).

Adams and Johnson, Laboratory Experiments in Organic Chemistry (Macmillan).

Laboratory—Monday 1-4 or Wednesday 1-4 or Thursday 1-4 or Saturday 9-12.

Professor McRae.

CHEMISTRY 13. QUANTITATIVE ANALYSIS—Honours Course.

Students in Geology or Mineralogy taking Chemistry as Minor should take Chemistry 10 and 13 in the same year.

The theory and technique of gravimetric and volumetric analysis.

Texts:

Talbot, Quantitative Analysis (Macmillan). Vogel, A Text-book of Quantitative Inorganic Analysis (Longmans).

Lectures—Tuesday and Thursday at 8.

Laboratory—Thursday, 1-4.

Professor Dorrance.

CHEMISTRY 14. PHYSICAL CHEMISTRY.

The pressure-volume relations of gases; the nature of the liquid and solid states; solutions; chemical and phase equilibria; thermochemistry; chemical kinetics, and other related topics.

Prerequisite—Chemistry 1, 2, 10, 13 and Mathematics 2. Chemistry 13 and 14 may be taken in the same year.

Reference books:

Millard, *Physical Chemistry for Colleges* (McGraw-Hill). Noyes and Sherrill, *Chemical Principles* (Macmillan).

Lectures—Tuesday and Thursday at 9.

Laboratory—Tuesday, 1-4.

Professor Frost.

CHEMISTRY 15a. COLLOID CHEMISTRY.

The lectures deal with the general properties of colloids, surface phenomena, adsorption, etc. The laboratory work is illustrative of the topics dealt with in lectures and includes the preparation of colloids by different methods and a study of their electrical properties, coagulation, surface tension, viscosity, adsorption, gels, etc.

Prerequisite—Physics 1 and Chemistry 1, 2, 12, 13, and 14.

Text: Hartman, *Colloid Chemistry* (Houghton-Mifflin).

Reference Texts:

Alexander, *Colloid Chemistry*, Vols. I-IV (Chem. Catalogue Co). Weiser, *Hydrous Oxides* (Wiley). Colloid Symposia Reports and Current Chemical Journals.

Lectures—Wednesday and Friday at 10, first term.

Laboratory—Tuesday, 1-4.

Professor Munro.

CHEMISTRY 17. INDUSTRIAL CHEMISTRY.

The lectures deal with the following topics: Wood, coal and other fuels; water for steam raising and drinking purposes; the petroleum industry; industrial gases, gas producers, by-product coke and illuminating gas; sulphuric acid, alkali and ammonia; hydrochloric, nitric and acetic acids, acetone; electric furnace products, fertilizers, explosives, artificial silk and manufacture of wood pulp.

In the laboratory typical industrial processes such as crystallization, water and gas analysis, ordinary and fractional distillation, preparations involving incomplete chemical reaction, are studied, emphasis being laid on systematic records and interpretation of results.

Prerequisite—Chemistry 1, 2, 10, 12, 13 and Physics 1.

Chemistry 17 and 12 or 13 or both may be taken in the same year.

Text: E. R. Riegel, *Industrial Chemistry*.

Handbooks: Hodgman-Lange *Handbook of Chemistry and Physics* (Chemical Rubber Co.), Or Lange's *Handbook of Chemistry* (Handbook Publishing Co.).

Lectures—Tuesday and Thursday at 10 in Ontario Hall.

Laboratory—Monday, 1-4, in Ontario Hall.

Professor Goodwin.

CHEMISTRY 21b. SURFACE CHEMISTRY.

The work of this course is designed to continue the work begun in course 15a. It is devoted to the study of gels, plastics, sorption, the mechanism of catalysis, activation, promoters, carriers, retarders, mixed catalysts and chain reactions.

Prerequisite—Chemistry 15a.

Texts:

Griffith, *The Mechanism of Contact Catalysis* (Oxford University Press). Gregg, *Adsorption* (Methuen and Co.).

Reference Texts:

McBain, *The Sorption of Gases* (Routledge). Maxted, *Catalysis and its Industrial Applications* (Churchill). Schwab-Taylor, *Catalysts* (Van Nostrand). Berkman, Morell and Egloff, *Catalysis* (Reinhold Corp.).

Lectures—Wednesday and Friday, at 11.

Professor Munro.

CHEMISTRY 22. ADVANCED ORGANIC CHEMISTRY.

The principal reactions used in synthetic organic chemistry with practical illustrations in the laboratory. The more detailed chemistry of the aliphatic and aromatic series and of the simpler types of heterocyclic compounds. Laboratory practice in qualitative and quantitative organic chemistry and organic preparations.

Prerequisite—Chemistry 1, 2, 10, 12, 13, 14, but Chemistry 22 and Chemistry 14 may be taken in the same year.

Texts:

Conant, *The Chemistry of Organic Compounds* (Macmillan Co.). Adams and Johnson, *Laboratory Experiments in Organic Chemistry* (Macmillan).

Books of Reference:

Francis, *Notes on Organic Chemistry* (Arnold). Hickinbottom, *Reactions of Organic Compounds* (Longmans, Green). Karrer, *Organic Chemistry*. Gilman, *Organic Chemistry* (Wiley). Gat-

termann-Wieland, *Laboratory Methods of Organic Chemistry* (Macmillan).

Lectures—Tuesday and Thursday at 11.

Laboratory—Monday 1-4 or Wednesday 1-4 or Thursday 1-4 or Saturday 9-12.

Professor McRae.

CHEMISTRY 24. ADVANCED PHYSICAL CHEMISTRY.

The principles of chemical thermodynamics and their application to chemical problems.

Prerequisite—Chemistry 1, 2, 10, 12, 13, 14.

Lectures—Tuesday and Thursday at 10.

Laboratory—Tuesday, Wednesday, or Friday, 1-4.

Professor Frost.

CHEMISTRY 25. ELECTROCHEMISTRY.

A discussion of the electrochemistry of aqueous solutions; applications to chemical analysis and to industrial processes, including fused systems.

The laboratory work includes electrolytic preparations, electrical measurements of the properties of solutions and electrometric titrations.

Prerequisite—Chemistry 1, 2, 10, 12, 13, 14.

Text: *To be announced.*

Reference Texts: Glasstone, *The Electrochemistry of Solutions* (Methuen). Creighton and Koehler, *Electrochemistry*, Vols. I and II (Wiley). Kolthoff and Laitenen, *pH and Electrotitrations* (McGraw-Hill). Mantell, *Industrial Electrochemistry* (McGraw-Hill).

Lectures—Monday at 10, Tuesday at 8.

Laboratory—Wednesday, 1-4.

Dr. Taylor.

READING COURSES IN CHEMISTRY:

R 1. Inorganic Chemistry.

Caven and Lander, *Systematic Inorganic Chemistry* (Blackie). Professor McRae.

R 2. Chemical Calculations.

Partington and Stratton, *Intermediate Chemical Calculations* (Macmillan). Crumpler and Yoe, *Chemical Computations and Errors* (Wiley).

A syllabus of the portions to be read and assigned problems will be furnished on application to the professor.

This course presupposes that the student has passed Mathematics 2.

Professor Dorrance.

R 3. History of Chemistry.

A course of selected reading in the history of chemistry, and the development of chemical theory. Students should consult the instructor for assignment of books and journal articles.

Professor Frost.

R 4. Colloid Chemistry.

Ware, *Chemistry of the Colloidal State* (Wiley). Hatschek, *The Foundations of Colloid Chemistry* (Chemical Pub. Co.). Portions from: Alexander, *Colloid Chemistry* (Van Nostrand). Weiser, *Inorganic Colloidal Chemistry* (Wiley), and Current Chemical Journals.

Professor Munro.

GRADUATE COURSES

CHEMISTRY 31. GENERAL AND INORGANIC CHEMISTRY—Research Training.

For graduate students electing thesis work in Inorganic Chemistry.

Professors Frost and Munro.

CHEMISTRY 32. ORGANIC CHEMISTRY—Research Training.

For graduate students electing thesis work in Organic Chemistry.

Professor McRae and Dr. Jones.

CHEMISTRY 33. QUANTITATIVE ANALYSIS—Research Training.

For graduate students electing thesis work in Quantitative Analysis.

Professor Dorrance.

CHEMISTRY 34. PHYSICAL CHEMISTRY—Research Training.

For graduate students electing thesis work in Physical Chemistry.

Professors Frost and Dorrance and Dr. Taylor.

CHEMISTRY 35. COLLOID CHEMISTRY—Research Training.

For graduate students electing thesis work in Colloid Chemistry.

Professor Munro.

CHEMISTRY 37. INDUSTRIAL CHEMISTRY—Research Training.

For graduate students electing thesis work in Industrial Chemistry.

Professor Goodwin.

CHEMISTRY 42. GRADUATE COURSE. ORGANIC CHEMISTRY.

Lectures will be given to qualified graduate students at hours to be arranged on a selection of topics in organic chemistry includ-

ing carbohydrates, proteins, terpenes, alkaloids, sterols, hormones and related substances, anthocyanins, modern theoretical organic chemistry.

This course will be given only when numbers warrant it and when otherwise it is deemed feasible.

Professor McRae or Dr. Jones.

CHEMISTRY 44. GRADUATE COURSE. PHYSICAL CHEMISTRY.

A study of principles underlying advanced physical chemistry.

Two lectures per week at hours to be arranged.

This course will be given only to properly qualified students and when numbers warrant it.

Professor Frost.

GEOLOGY

PROFESSOR—M. B. Baker, B.A., B.Sc., F.R.S.C., F.G.S.A.

MILLER MEMORIAL RESEARCH PROFESSOR—E. L. Bruce, B.Sc., M.A., Ph.D., F.R.S.C., F.G.S.A.

PROFESSOR—B. Rose, B.Sc., Ph.D., F.R.S.C., F.G.S.A.

LECTURER—M. L. Keith, B.Sc., M.Sc., Ph.D.

ASSISTANT—R. J. MacNeill.

RESEARCH ASSISTANT—D. F. Hewitt.

REGULATIONS AND ANNOUNCEMENTS

1. Mineralogy 1 is prerequisite to Geology 10b and 11. Mineralogy 10a is prerequisite to Geology 10b. Geology 1 and 11 are prerequisite to Geology courses numbered 13, 15, 17, 18, 19.

2. Students selecting Geology as one of the chief subjects on a Pass Course will take Geology 1, 11, and Mineralogy 1.

If the Mineralogy is being counted under another group the third course will be Mineralogy 10a and Geology 10b.

3. For information in regard to Scholarships in Geology see pp. 62-63.

4. (a) For Honours in Geology a student must take in the Major:

(i) Geology 1, 10b, 11, 13, 14a, 15, 17, Mathematics 2, and Mineralogy 1, 10a, 11, 14b when the Minor is in Chemistry, or

(ii) Geology 1, 10b, 11, 13, 14a, 15, 17, Mathematics 2, and Chemistry 2, 10, 14 when the Minor is in Mineralogy.

Two Reading Courses, Geology R 1, R 2.

(b) Five courses for Minor.

(c) Six compulsory general courses to complete the work for degree:

English 1, 2, French 1 or German 1 or Greek 1, Philosophy 1, Mathematics 1, a Science (Chemistry 1 when the Minor is in Mineralogy, Physics 1 when the Minor is in Chemistry).

5. For admission to an Honours Course in Geology a student must have made 62% in Mineralogy 1, and in Geology 1.

COURSES OF INSTRUCTION

GEOLOGY 1. INTRODUCTORY COURSE IN PHYSIOGRAPHY AND GENERAL GEOLOGY.

The lectures will deal with external and internal geological processes, and their results; an outline of the history of the earth; fossils and their uses. This course will prove valuable to students who contemplate teaching Geography in schools.

The lectures are illustrated by maps, models, lantern slides, and specimens.

LABORATORY WORK will consist of the examination of typical specimens of fossils, hand specimens of the more common rocks and minerals; together with the interpretation of geological maps, and types of topography. The laboratory work will also include field trips. It is therefore necessary that students should select their laboratory section on an afternoon on which they have no other laboratory period. The expenses of these trips are covered by the laboratory deposit.

Text-book: Miller, *Elements of Geology*.

Lectures—Monday and Wednesday at 11.

Laboratory—Wednesday 1-3, or Thursday 1-3.

Professor Rose.

GEOLOGY 10b. ELEMENTARY PETROGRAPHY.

This course is essentially on igneous geology and petrography, and on the determination of the more common rocks and rock minerals by both field and microscopic tests. Some attention will be paid to the sedimentary and metamorphic rocks. The lectures will be supplemented by laboratory work on hand specimens and rock slices. Mineralogy 10a and Geology 1 are prerequisite to Geology 10b.

Text-book:

Pirsson and Knopf, *Rocks and Rock Minerals*.

Lectures—Tuesday and Thursday at 10-11.

Laboratory—Wednesday, 1-3.

Dr. Keith.

GEOLOGY 11. STRUCTURAL GEOLOGY, AND PHYSIOGRAPHY.

Inherent and imposed structures in sedimentary, igneous, and metamorphic rocks, with particular attention to sedimentation, faulting, folding and shearing.

Topography using structure as a basis of interpretation. Physiographic cycles, under normal, arid, glacial, karst and marine conditions. The interpretation of topographic and geologic maps. Illustrations from Canadian occurrences where possible.

Text-books:

Nevin, *Structural Geology*. Platt, *Geological Map Exercises*.

Lectures—Wednesday and Friday at 9.

Laboratory—Monday, 2-4.

Professor Rose.

GEOLOGY 13. HISTORICAL GEOLOGY.

Continental evolution and geologic life development with special reference to North America.

Text-book:

Schuchert and Dunbar, *Text-book of Geology*, Part II.

Lectures—Tuesday and Thursday at 9.

Laboratory—Monday, 2-4.

Professor Rose.

GEOLOGY 14a. ADVANCED PETROLOGY.

A course of lectures will be given on the classification of igneous, sedimentary, and metamorphic rocks. Considerable attention will be given to the genesis of rock types, and to the physico-chemical conditions effective in the generation and differentiation of magmas.

Lectures—Wednesday and Friday at 11.

Laboratory—Wednesday, 2-4.

Dr. Keith.

GEOLOGY 15. ECONOMIC GEOLOGY AND GEOLOGY OF CANADA.

The work in this class is an illustration of the principles of ore deposition.

A course of lectures on the age, classification, structure, and distribution of the chief rock formations in Canada; also a discussion of the character, structure, and chief economic associations of the pre-Cambrian formations in Canada.

Text-book:

Tarr, *Introductory Economic Geology*.

Lectures—Monday and Tuesday at 11..

Professor Baker.

Wednesday at 8.

Professor Bruce.

GEOLOGY 16a. GEOMORPHOLOGY, METEOROLOGY, MAP READING.

This course is intended to follow Geology 1 as an essential part of the training necessary for students who expect to teach Geography in the secondary schools of Ontario. It will deal with the general physiography of Canada, and with some reference to other parts of the British Empire. It will also show the relationship of topography to climate control. Part of the time will be devoted to map readings and interpretation, with particular reference to the British Empire.

GEOLOGY 17. FIELD GEOLOGY.

The field and laboratory work of this class consists of a systematic survey of an area in the vicinity of Kingston. Students are given practice in the methods of geological survey, the plotting of outcrops, the measurement of stratigraphic sections, the determination of levels, and then the preparation of a contoured geological map to scale, together with a geological report on the area studied.

Instruction is given on instrumental methods of geological survey, and on the techniques of geophysical prospecting. Emphasis is placed on the application of various geophysical methods to particular problems in geology, and on control of such surveys, and the interpretation of results by the geologist.

Reference Books: Lahee, *Field Geology*. Eve and Keys, *Applied Geophysics in the Search for Minerals*. Heiland, *Geophysical Exploration*.

Monday, 1-5.

Dr. Keith.

GEOLOGY 18. SYSTEMATIC PALEONTOLOGY.

Fossils, their classification and identification.

Professor Rose.

GEOLOGY 19. STRATIGRAPHY.

Interpretation of sediments and sedimentary processes; the geologic and geographic distribution of fossils.

Lectures and Laboratory—to be arranged with the class.

Professor Rose.

READING COURSES IN GEOLOGY:

*Books marked thus must be procured by the student for himself.

R 1. History of the Progress of Geology.

*Agar, Flint and Longwell, *Geology from Original Sources*.

*Willis and Salisbury, *Outlines of Geologic History* (University of Chicago Press). *Source Book in Geology, Mather and Mason (McGraw-Hill). Geikie, *The Founders of Geology*. Adams, *The Birth and Development of Geologic Science*.

R 2. Rock Magmas and their Behavior.

*Tyrrell, *The Principles of Petrology* (Dutton, New York). *Daly, *Igneous Rocks and the Depths of the Earth* (McGraw-Hill). Urbana, Ill. Rastall, *Geological Magazine*, Vol. LVII, p. 290. Leith, *Economic Aspects of Geology* (Holt). Harker, *Petrology for Students* (Cambridge Press).

R 3. A satisfactory report of geological field work done by the student, with a knowledge of the literature of the area involved will be accepted for R 2. Otherwise, a second reading course will be assigned the individual student who has not had opportunity to do field work.

GRADUATE COURSES

These courses are open only to graduate students.

Field excursions are required for all these courses.

Geology 113. Principles of Pre-Cambrian Geology. The origin, history and distribution of the rocks older than the Cambrian. Special attention will be given to the Canadian pre-Cambrian areas. The course will be offered in 1943-44.

Prerequisites—Geology 1, 10a and 11, Mineralogy 1, 10b and 11.

Lectures—Monday and Wednesday at 11.

Laboratory—Monday, 1-4.

Professor Bruce.

Geology 114. Structural and Metamorphic Geology. A study of the changes that rocks undergo. Special attention will be paid to the origin of gneisses and schists. It will not be given in 1943-44.

Prerequisites—As in Geology 113.

Lectures—Tuesday and Friday at 11.

Laboratory—Friday, 1-4, or Saturday, 9-12.

Professor Bruce.

Geology 115. Pre-Cambrian Ore Deposits. Discussion of ore deposits in Pre-Cambrian rocks with especial reference to those in Canada. The genesis and character of the deposits will be studied in detail.

This course will be offered in 1943-44. Prerequisites as in Geology 113. It is advisable that Geology 14a and 15 shall also have been taken.

Text-book:

Bruce, *Mineral Deposits of the Canadian Shield* (The Macmillan Co.).

Lectures—Tuesday and Friday at 11.

Laboratory—Tuesday, 1-4, or Friday, 1-4.

Professor Bruce.

Geology 116a. Chemical Petrology. The course comprises a critical review of petrological processes. It is planned as a directed discussion based upon selected references pertaining to both laboratory and field investigations of the genesis of rocks.

Lectures—Monday at 9, first term.

Reading—Time to be arranged.

Dr. Keith.

Geology 119. Regional Geology—a study of the general geology of selected regions to illustrate geological processes and to correlate the stratigraphic and diastrophic history of the world.

Periods to be arranged.

Professor Rose.

Seminar: A seminar for graduate students meets every two weeks for discussion of geological literature. Attendance is voluntary and no formal registration is required.

MINERALOGY

PROFESSOR—J. E. Hawley, M.A., Ph.D., F.G.S.A., F.R.S.C.

LECTURER—N. W. Buerger, S.M., Ph.D., F.M.S.A.

(on leave of absence)*

ASSISTANT—J. M. Harrison, B.Sc., M.A.

REGULATIONS AND ANNOUNCEMENTS

1. Students taking Mineralogy 1 must have Honour matriculation in Chemistry, or have passed in Chemistry 1.

2. Pass Course. Mineralogy 1, 10, 11 are the three courses necessary if Mineralogy is selected as one of the chief subjects on a Pass Course. For such students it is recommended that Geology and Chemistry be made the other groups for concentration.

*Lieutenant, United States Naval Reserve, stationed at United States Naval Academy, Postgraduate School, Annapolis.

3. For Honours in Mineralogy a student must take

Five courses in Mineralogy—1, 10a, 10b, 11, 12, 13.

Four courses in Chemistry, when the Minor is in Geology, Chemistry 1, 2, 10 and 13;

or when Chemistry is the Minor, Geology 1, 10b, 14a, 15, and Physics 2.

Three courses, Mathematics 2 and two of the three Reading courses. Field work or research approved by the Department may be substituted for one of the Reading courses, a thesis on the work being required.

(b) Five courses for a Minor in Geology or Chemistry.

(c) Six compulsory general courses to complete the work for degree: English 1, 2, French 1 or German 1 or Greek 1, Philosophy 1, Mathematics 1, Physics 1.

(d) A Minor in Mineralogy will consist normally of Mineralogy 1, 10a, 10b, 11, 12, 13.

4. For admission to an Honours Course in Mineralogy a student must have made 62 per cent. in each of Mineralogy 1 and Geology 1. Students intending to register in this course should consult with the Department regarding the order in which the courses should be taken. Attention is called to the general regulations regarding entrance to and continuance in Honours Courses.

5. All students in Mineralogy are expected to take part in the field excursions which are made during October and November. Students taking the Geology 1 field trips the same year as Mineralogy 1 need not repeat them for Mineralogy.

6. Each student in the Department is supplied with a locked cabinet containing about 150 mineral specimens.

COURSES OF INSTRUCTION

MINERALOGY 1.

A course in Elementary Crystallography, Blowpipe Analysis and Descriptive and Determinative Mineralogy of about 100 common or more important minerals.

Prerequisite—Honour Matriculation Chemistry or Chemistry 1, taken concurrently.

Text-book: Hurlbut, *Dana's Manual of Mineralogy*, 15th Ed. (John Wiley and Sons, Inc., New York, 1941).

or,

Mineralogy, Kraus, Hunt and Ramsdell (McGraw-Hill, 1936).

The latter is more complete and is recommended for students without much training in geology and geometry.

For students intending to continue in Mineralogy, Ford, *Dana's Text-book of Mineralogy*, 4th Edition (John Wiley and Sons, Inc., New York, 1932), or *Mineralogy*, Kraus, Hunt and Ramsdell.

Lectures—First term—Friday at 8; Second term—Tuesday at 10 and Friday at 8.

Laboratory—Two hours, to be arranged with one of two Laboratory sections of Mineralogy I (Science). Monday 1-3, or 3-5, first term; Tuesday 1-3 or 3-5, second term.

Professor Hawley, and Assistants.

MINERALOGY 10a. ELEMENTS OF OPTICAL MINERALOGY.

Prerequisite—Mathematics 1 and Physics 1.

Optical properties of crystals including non-opaque minerals and chemical compounds.

A. N. Winchell, *Elements of Optical Mineralogy*, 5th Ed. (John Wiley and Sons, 1937).

or—

Optical Mineralogy, Rogers and Kerr (McGraw-Hill, 1942).

Reference Books:

Optic Properties of Crystals, Groth and Jackson, (Wiley and Sons, 1910).

Manual of Petrographic Methods, Johannsen (McGraw-Hill, 1928).

Lectures—Monday and Friday at 10, first term.

Laboratory—Tuesday 1-3, or Saturday 10-12.

Dr. M. C. Keith

MINERALOGY 10b. PHYSICAL MINERALOGY AND CRYSTALLOGRAPHY.

An advanced course in the character of crystals, crystal measurements and crystal drawing.

Prerequisites—Mineralogy 1, Physics 1, Mathematics 1.

Laboratory—Saturday, 10-12, second term.

Lectures—Monday at 10, Friday at 11, second term.

Professor Hawley.

MINERALOGY 11. DESCRIPTIVE AND DETERMINATIVE MINERALOGY.

The properties, occurrences, valuation, and uses of ore and other important minerals, and their determination by blowpipe and microchemical methods.

Prerequisites—Mineralogy 1 and 10a; students on an Honours Course may take 10a and 11 at the same time.

Text-books:

Dana's Text-Book of Mineralogy, Ford, 4th Ed. (John Wiley and Sons), and choice of

Introductory Economic Geology, Tarr (McGraw-Hill, 1938), or *Mineral Deposits*, Lindgren (McGraw-Hill, 1933).

Lectures—First term, Tuesday and Thursday at 8; second term, Wednesday at 10 and Friday at 10.

Laboratory—Wednesday, 1-3.

Professor Hawley.

MINERALOGY 12. NON-METALLIC MINERALS AND THEIR TECHNOLOGY.

A study of (1) the optic properties of the feldspars and other rock-forming minerals, (2) the occurrence and utilization of non-metallic minerals.

Prerequisite—Honour standing in Mineralogy 10a and b.

Text-book:

A. N. Winchell, *Elements of Optical Mineralogy*, Part II, 3rd Edition (Wiley and Sons, 1933).

Reference Books:

Publications of: Geological Survey of Canada, Mines Branch, Dept. of Mines, Canada; U.S. Geological Survey.

R. B. Ladoo, *Non-Metallic Minerals* (McGraw-Hill, 1925).

Industrial Minerals and Rocks, A.I.M.E. (New York, 1937).

Lectures—Tuesday and Thursday at 10, first term; Wednesday at 11 and Thursday at 10, second term.

Laboratory—Friday, 1-3.

Professor Hawley.

MINERALOGY 13. ORE MINERALS AND MINERALOGRAPHY.

An advanced study of ore minerals and their genesis. Laboratory work will consist of a study of specimens from many deposits by means of the reflecting and petrographic microscopes. This class will alternate with Mineralogy 115. Not offered in session 1943-1944.

Prerequisite—Honour standing in Mineralogy 11.

Lectures and Laboratory, four hours a week, to be arranged.

Professor Hawley.

MINERALOGY 14a. MINERALOGRAPHY.

Prerequisite—Honour standing in Mineralogy 11.

For students on Honours Geology Course only. An advanced

course in the study of metallic minerals in polished sections. A practical and written examination will be given in this subject.

Text:

Microscopic Determination of the Ore Minerals, M. N. Short, (U.S.G.S. Bull. 914, 1940).

Reading to be assigned.

Laboratory—First term—Thursday 1-4.

Professor Hawley.

MINERALOGY 16b. WORLD DISTRIBUTION OF ECONOMIC MINERALS.

A course designed for those interested in teaching geography. Minerals of economic importance will be studied as to nature, occurrence, production and reserves.

References:—Current volumes of the Mineral Industry (McGraw-Hill), Mineral Year Books of the Bureau of Mines, U. S. Department of Interior, Mineral Production of Canada, Dominion Bureau of Statistics.

Texts listed under Reading Course No. 1.

Reading to be prescribed in current journals.

Lectures, 2 hours; Laboratory 2 hours, second term—to be arranged.

READING COURSES IN MINERALOGY:

R 1. World Distribution of Minerals and its Significance.

G. A. Roush, *Strategic Minerals* (McGraw-Hill, 1940). C. K. Leith, *World Minerals and World Politics* (McGraw-Hill, 1931). *World Atlas of Commercial Geology, Part 7, Distribution of Mineral Production, U.S.G.S., 1921. *F. W. Clarke, *The Data of Geochemistry*, 5th Ed., U.S.G.S. Bulletin 770. *Mineral Economics*, Vol. III, Am. Institute of Mining Engineering Series (McGraw-Hill, 1937).

R 2. X-rays and Crystal Structure.

R. W. James, *X-ray Crystallography*, 1930 (Methuen and Co., London). **The Crystalline State*, W. H. and W. L. Bragg, Vol. I (Macmillan, 1934). *Atomic Structure of Minerals*, W. L. Bragg (Cornell Univ. Press, 1937). R. W. G. Wyckoff, *The Structure of Crystals*, 2nd Ed., 1931.

R 3. Metamorphism of Minerals.

C. K. Leith and W. J. Mead, *Metamorphic Geology* (New York, 1915). *Metamorphism*, A. Harker (Methuen & Co., 1932). F. W. Clarke, *The Data of Geochemistry*, 5th Ed., U.S.G.S. Bulletin 770. Selected Papers in the Journal of Geology and Economic Geology.

*Books to be purchased by students. Others may be secured from departmental library.

Note: Field work or research on mineral deposits may be substituted for one of the above reading courses. A complete report of such work must be submitted to the department.

GRADUATE COURSES

Lecture courses: Mineralogy 115 and 116. By special arrangement certain courses in Geology may be substituted.

MINERALOGY 115. ADVANCED OPTICAL MINERALOGY.

Offered in alternate years with Mineralogy 116.

Offered in session 1943-1944.

Text-book:

A. N. Winchell: *Elements of Optical Mineralogy, Part II*, (J. Wiley and Sons, 1933).

Lectures and Laboratory—Six hours, to be arranged.

Professor Hawley.

MINERALOGY 116.

Advanced study of ore minerals and mineralography.

Not offered in session 1943-1944.

Text-books:

Mineral Deposits, Lindgren (McGraw-Hill, 1933).

Determination of Opaque Minerals, C. M. Farnham, 1st ed. (McGraw-Hill, 1931).

Microscopic Determination of the Ore Minerals, M. N. Short, 1941, U.S.G.S.).

Lectures and Laboratory—Four hours a week, to be arranged.

Directed Special Studies, on either metallic or non-metallic minerals, with Thesis.

Professor Hawley.

MINERALOGY 117a. STRUCTURAL CRYSTALLOGRAPHY.

An introduction to our present knowledge of the structure of crystals, mainly by means of x-ray diffraction data, and the application of this knowledge to Mineralogy. Practical experience is gained by the use of modern x-ray diffraction apparatus.

Text-book:

R. W. James, *X-Ray Crystallography* (Methuen & Co., Ltd., 1930).

Reference books:

W. H. Bragg and W. L. Bragg, *The Crystalline State* (Macmillan Co., 1934).

R. C. Evans, *An Introduction to Crystal Chemistry* (University Press, 1939).

Miscellaneous assigned readings.

Lectures—Two hours per week, to be arranged.

Laboratory—Three hours per week, to be arranged.

Not offered for the duration of the war.

Prerequisites: Mineralogy 1, and Mineralogy 10b, or the equivalent.

Graduate students in Physics or Chemistry will be admitted to this course.

Dr. Buerger.

PHYSICS

PROFESSOR—A. L. Clark, B.Sc., Ph.D., F.R.S.C.

CHOWN SCIENCE RESEARCH PROFESSOR OF PHYSICS—J. A. Gray, O.B.E., D.Sc., F.R.S.C., F.R.S.

THE ROBERT WADDELL PROFESSOR OF PHYSICS—

J. K. Robertson, M.A., F.R.S.C.

PROFESSOR—E. Flammer, B.Sc., Ph.D.

ASSISTANT PROFESSORS—H. M. Cave, M.A., Ph.D.

(on leave of absence)*

B. W. Sargent, M.A., Ph.D., F.R.S.C.

(on leave of absence)*

E. E. Watson, M.Sc., Ph.D.

H. W. Harkness, B.Sc., B.A., M.Sc., Ph.D.

LECTURERS—R. H. Hay, M.Sc., R. A. Chipman, Ph.D.

INSTRUCTOR—A. Vibert Douglas, M.B.E., M.Sc., Ph.D.

DEMONSTRATOR—C. A. Burr, B.Sc.

REGULATIONS AND ANNOUNCEMENTS

1. Students offering Physics as one of the chief subjects on a Pass Course will take Physics 1, 2 and 11.

2. For Honours in Physics a student must take:

(a) Twelve courses for Major, as follows:

Seven courses in Physics, 1, 2, 11, 12a, 14a, 10b, 13b, 16a, 21a, 17b, 20b, with two supporting courses. When the Minor is in Mathematics the two supporting courses will be Chemistry 1

*War Research, National Research Council, Ottawa.

and a course in Physics or Mathematics or another Science, the choice to be made after consultation with the Head of the Department of Physics. When the Minor is in Chemistry the two supporting courses will be Mathematics 1 and 2 and students should choose Mathematics 10a and 11b as one of the free options.

Three Reading courses, Physics R 1, R 2, R 3.

(b) Five courses for Minor in Mathematics or Chemistry.

(c) Six compulsory general courses to complete the work for degree: English 1, 2, French 1 or German 1 or Greek 1, Philosophy 1, two free options. Students taking a Major in Physics are strongly advised to acquire a reading knowledge of German.

3. When Physics is the Minor associated with Mathematics as Major, the Minor shall consist of Physics 1, 2, 11, 12a, 14a, 10b and 13b.

When Physics is the Minor associated with Chemistry as Major, the Minor shall consist of Physics 1, 2, 11, 14a and 13b, and Mathematics 10a and 11b.

4. When Physics is one of the three special subjects on the General Honours Course (p. 83), the six courses shall include Physics 1, 2, 11, 14a, 13b, Reading course 1, and Mathematics 2. If possible, students should select Mathematics 10a and 11b as a free option.

5. *High School Specialist Certificates in Mathematics and Physics, and in Science.*

Candidates for admission to the Qualifying Examinations for the Specialist Course in Mathematics and Physics at the Ontario College of Education will take the Honours Course in Mathematics and Physics.

Candidates for admission to the Qualifying Examinations for the Specialist Course in Science at the Ontario College of Education will take the Honours Course in General Science for Teachers (page 85), or the regular Honours Course in two of Biology, Chemistry, Physics with two courses from the third Science offered in place of free options, or in substitution for courses ordinarily prescribed.

N.B. With Chemistry as Major, Physics as Minor, Biology 1 will be taken in place of a free option, and Biology 10 or 15 will be substituted for one of Chemistry 22, 24, 25. With Physics as Major, Chemistry as Minor, Biology 1 and 10 or 15 will be taken in place of free options.

COURSES OF INSTRUCTION

PHYSICS 1. MECHANICS, PROPERTIES OF MATTER, HEAT, WAVE-MOTION, SOUND, LIGHT, ELECTRICITY, AND MAGNETISM.

Text-book:

Stewart, Physics (Ginn and Company).

Lectures—Tuesday, Thursday, and Saturday at 11.

Professors Cave and Watson.

Laboratory—Tuesday 1-3, Tuesday 3-5, and Wednesday 1-3.

Professors Flammer, Watson, Sargent and Dr. Douglas.

PHYSICS 2. LIGHT AND ELECTRICITY AND MAGNETISM.

Prerequisite: Physics 1.

While not prerequisite, Mathematics 2 will be found very useful in this course, even if taken concurrently.

Texts:

Robertson, *Introduction to Physical Optics* (Van Nostrand);

Lectures—Tuesday, Thursday, and Saturday at 9.

Professors Robertson, Cave, and Mr. Hay.

Laboratory—Thursday, 3-5. Professor Robertson.

PHYSICS 11. MECHANICS.

Prerequisites—Physics 1 and Mathematics 2. For Pass students Physics 2 is also prerequisite. Students on an Honours course with Grade B standing in Physics 1 and Grade A standing in Mathematics 2 (or in Honour Matriculation Mathematics) may take Physics 2 and Physics 11 in the same year.

Lectures—Monday at 10 and Friday at 2.

Laboratory—Wednesday, 1-3.

Professor Cave and Mr. Hay.

PHYSICS 10b. DYNAMICS OF A PARTICLE.

Text-book:

Lamb, *Dynamics* (Cambridge University Press).

Prerequisites—Physics 2 (62%) and Physics 11 (55%).

Lectures—Tuesday and Thursday at 10.

Laboratory—Tuesday, 3-5.

Professors Flammer and Watson.

PHYSICS 12a. INTRODUCTION TO THE MATHEMATICAL THEORY OF ELECTRICITY AND MAGNETISM.

Prerequisites—Physics 2 (62%) and Physics 11 (55%).

Lectures—Tuesday, Thursday, and Saturday at 10.

Laboratory—Tuesday, 3-5.

Professor Watson.

PHYSICS 13b. ATOMIC PHYSICS.

Prerequisites—Physics 2 (62%) and Mathematics 2.

Text-book:

J. A. Crowther, *Ions, Electrons and Ionizing Radiations*.
(Arnold)

Lectures—Monday and Wednesday at 11.

Laboratory—Thursday, 1-3.

Professors Gray, Cave, and Mr. Hay.

PHYSICS 14a. THERMODYNAMICS.

Prerequisites—Mathematics 2 and Physics 2 (62%).

Lectures—Monday, Wednesday, and Friday at 11.

Laboratory—Thursday, 1-3.

Professors Clark and Cave.

PHYSICS 16a. DYNAMICS OF RIGID BODIES.

Prerequisite—Physics 10b (55%).

Text-book:

Gans, *Vector Analysis* (Blackie).

Lectures—Monday, Wednesday, and Friday at 11.

Laboratory—2 hours. Professor Flammer.

PHYSICS 17b. PHYSICAL OPTICS.

Prerequisites—55% on each of Physics 10b, 12a, and 13b.

Lectures—Tuesday and Thursday at 11.

Laboratory—Thursday, 2-4.

Professor Robertson.

PHYSICS 20b. ELECTRICITY AND MAGNETISM.

Prerequisites—55% each on Physics 10b, 12a and 13b.

Text-book:

Abraham and Becker, *Classical Magnetism and Electricity* (Blackie).

Lectures—Monday, Wednesday, and Friday at 11.

Laboratory—2 hrs.

Professor Flammer.

PHYSICS 21a. KINETIC THEORY OF GASES.

Prerequisites—55% on each of Physics 10b, 12a, 13b, and 14a.

Text-book:

Bloch, *Kinetic Theory of Gases*.

Lectures—Tuesday and Friday at 10, Thursday at 11.

Laboratory—2 hrs.

Professor Gray.

PHYSICS 22. ADVANCED LABORATORY COURSE.

This is the equivalent of a whole lecture course and may be one of the two supporting courses, when Physics is chosen as a Major. (See 2(a), page 209).

Professors Clark, Robertson and Gray.

READING COURSES IN PHYSICS.

R 1. Mechanics, Selected parts of Vol. I. Grimsehl's Textbook of Physics (Blackie).

Selected parts of Electricity and Magnetism, being Vol. III of Grimsehl's *Text-book of Physics* (Blackie).

R 2. Properties of Matter, Selected parts of Vol. I, Grimsehl, Textbook of Physics (Blackie).

R 3. Roberts, *Heat and Thermodynamics* (Blackie).

The principal Physics Journals and books relating to the lectures and the laboratory work are kept in the Library of the Physics Department and in the University Library, where they may be freely consulted by the students. Certain of these may be borrowed for limited periods by making application to the librarians in charge.

GRADUATE COURSES

Lecture courses: A minimum of three lectures a week on selected topics.

PHYSICS 27 a or b. MECHANICS.

The development and application of such important principles as the Principle of Virtual Work, Principle of d'Alembert, Hamilton's Principle of the Least Action, Lagrange's Equations, and a brief treatment of Non-Newtonian Mechanics.

Three hours.

Professor Flammer.

PHYSICS 35. DIRECTED SPECIAL STUDIES.

PHYSICAL EDUCATION

MEDICAL OFFICER—Dr. J. T. Tweddell.

DIRECTOR OF PHYSICAL EDUCATION FOR MEN—R. Seright, B.Sc.

DIRECTOR OF PHYSICAL EDUCATION FOR WOMEN—Marion Ross, B.A.

Each first year student is given a careful examination by the Medical Officer at the beginning of the college course, the appointments being made on the day of registration. Corrective and remedial work is then given in the gymnasium when it is needed by the students.

With the exception of those excused by the Medical Officer because of ill-health, all first year students are required to take two hours of gymnasium work per week during the whole of the college year. The time-table for such classes is posted in the gymnasium very soon after registration and these classes may be taken voluntarily by any registered sophomore, junior, or senior in good standing. The work varies throughout the year and as much time as possible is spent outdoors in the early Fall and Spring. This consists of touch football, track and field, and softball, while every student is given a swimming test and the non-swimmers are automatically placed in an instruction group.

Indoor work follows with cooler weather and consists of swimming, Danish calisthenics, marching, setting-up exercises, and apparatus work on the parallel bars, the horse, the mats, and horizontal bar. The winter term brings basketball, indoor softball, group games, and indoor track and field. Each student is encouraged to learn something about all of these activities and a wide variance of exercise is achieved.

Equivalent credit is given for attendance at regular organized swimming and life-saving classes, C.O.T.C. training, and for participation on university teams in track, football, basketball, hockey, water polo, gymnastics, tennis, and boxing and wrestling. Such credit TERMINATES WITH THE REGULAR SCHEDULED PROGRAMME OF ACTIVITIES OF EACH RESPECTIVE CLUB, when students will rejoin the weekly gymnasium classes or engage in any other of the sports listed above. At the beginning of the Fall term, each new student must report at the offices of the Physical Directors in the main gymnasium building.

Women Students

Compulsory classes for first and second year students are held in the mornings between the hours of 11-12, or from 3-4 in the afternoon. They include instruction in the fundamental skills of archery, softball, badminton, basketball, swimming and diving in addition to formal gymnastics.

It should be noted that the gymnasium is reserved for women students from 1-3 p.m. for voluntary participation in seasonal sports. Inter-year games are conducted under a point scoring system and awards are presented to the winning teams. The swimming pool is available every afternoon from 2-3 and on Wednesday evening from 7.30-8.30.

GRADUATE COURSES

DEGREE OF MASTER OF ARTS

1. In the requirements for the degree of Master of Arts the emphasis is placed upon the candidate's grasp of the prescribed subjects and upon his ability to work with some independence, particularly in the field represented by his Directed Special Studies and the content of his Thesis. A reading knowledge of French and German is a decided advantage.

2. The degree of Master of Arts is awarded in recognition of the satisfactory completion of a Course of intensive study under the direction of one Department of the Faculty of Arts.

This work will include the following:

I. Directed Special Studies (with reports, essays, and conferences, as required by the Department concerned), together with a Thesis embodying the results of research or investigation.

II. Advanced courses, normally two in number. Graduate students taking courses open also to undergraduates will be required to do additional work in such courses.

The weight of work required is that of a full academic year, of which ordinarily half is represented by the Directed Special Studies and Thesis.

The Department may require the candidate to attend certain lectures cognate to the Course of study.

3. A candidate for the degree of Master of Arts must have taken the degree of Bachelor of Arts with first or second class honours. The Department concerned may, however, recommend that any application be not accepted.

4. Application for permission to become a candidate for the degree of Master of Arts must be made to the Registrar at least two weeks before the opening of the session. Applicants who are not graduates of Queen's University must send official certificates giving full details of their previous academic training, including courses taken and grades received, together with a marked Calendar showing the content of the courses. All applicants must specify the field in which they desire to carry on their studies.

5. The Committee on Graduate Studies will deal with the applications of candidates and the prescriptions of work officially proposed for each.

6. All candidates must take the following final examinations:

I. Written examinations:

- (a) on all courses prescribed,
- (b) on the Directed Special Studies.

The minimum standing required in each of these examinations is that of second class honours..

II. An oral examination on the subject of the Thesis submitted. The Chairman of each Board of Examiners will be appointed by the Committee on Graduate Studies. This Board will include:

- (a) at least two members of the Department concerned,
- (b) at least two other members of the University staff to be selected by the Department concerned.

Each candidate for the degree of Master of Arts at the spring convocation must submit three typed copies of his Thesis to the Registrar not later than April 20th.

7. The fees charged are as follows: Sessional fee, \$110.00; Student Interest fees, \$23.00; Laboratory and Library fee, \$10. Students working in Science departments will pay, in addition, a Laboratory deposit of \$10.00. (See page 52.)

8. Except by special permission of the Committee on Graduate Studies, candidates are required to do all the work for the Master's degree in residence.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The University will accept candidates for the degree of Ph.D. only when it is satisfied that the Departments concerned are in a position to give the Course adequate attention and that the candidate is qualified to undertake the work.

A statement of the regulations governing the Course will be sent on application.

DEGREES

HONORARY DEGREES

Degree of LL.D.

Coulton, George Gordon
Greer, Vanamber Kenneth
Howe, Clarence Decatur
Sandwell, Bernard Keble
Villeneuve, Jean Marie Rodrigue

Degree of D.D.

Ferguson, Alexander

DEGREES BY EXAMINATION

Degree of B.D.

G. W. Payne, B.A. Wolfe Island, Ontario
A. L. Shorten, B.A. Harrowsmith, Ontario

Degree of M.A.

*G. A. Bishop, B.A. (New Brunswick)	Pt. Maitland, Nova Scotia
D. J. Conacher, B.A.	Kingston, Ontario
J. W. Conner, B.A.	Kingston, Ontario
Ruby F. Cordy, B.A.	Brockville, Ontario
*J. E. L. Evans, B.A. (Manitoba)	Winnipeg, Manitoba
V. A. Helson, B.A.	Warkworth, Ontario
Joyce Hemlow, B.A.	Liscomb, Nova Scotia
*J. H. Houck, B.A.	Brampton, Ontario
J. J. D. Londerville, B.A.	Peterborough, Ontario
R. Y. Moir, B.A.	Govan, Saskatchewan
D. G. McKercher	Maxville, Ontario
W. M. MacLean, B.A.	Ottawa, Ontario
R. W. Reed, B.A.	Kingston, Ontario
W. C. Stewart, B.A. (Toronto)	Richmond Hill, Ontario
*Ellen Thibaudeau, B.A.	Fort William, Ont.
H. J. Vallery, B.A.	Peterborough, Ontario
J. H. Wright, B.A. (Toronto)	Toronto, Ontario

Degree of B.A. (Honours)

Abner, C. E. (Economics, 2nd class Honours)	Montreal, Quebec
Baxter, E. E. (Economics, 2nd class Honours)	Bloomfield, Ontario
Black, H. A. (History, 2nd class Honours)	Lindsay, Ontario
Bonsteel, R. R. (General Honours, 2nd class Honours)	Lansdowne, Ontario
Brown, Helen J. (Biology, 1st class Honours)	Saint John, New Brunswick
Butcher, Kathleen E. (Mathematics, 1st class Honours)	Paris, Ontario

*Indicates graduates of October, 1942.

Case, C. G. (General Honours, 2nd class Honours)	Kingston, Ontario
*Chapman, T. L. (History, 2nd class Honours)	St. Catharines, Ontario
Dick, R. S. (English and French, Specialist Course, 2nd class Honours)	Peterborough, Ontario
Farrell, M. W. (Economics, 1st class Honours)	Ripley, Ontario
Field, J. L. (History, 1st class Honours)	Ottawa, Ontario
Freeman, Audrey D. (French, 1st class Honours)	Kingston, Ontario
Gibson, F. W. (History, 1st class Honours)	Kingston, Ontario
Hackett, F. W. (English, 2nd class Honours)	North Bay, Ontario
Henderson, H. B. (Chemistry, 1st class Honours)	Bath, Ontario
Jeffery, Mary E. (Psychology, 1st class Honours)	Paris, Ontario
Lindsay, J. H. (Economics, 3rd class Honours)	Montreal, Quebec
Miller, J. R. (Mathematics, 2nd class Honours)	Owen Sound, Ontario
Munro, Jean S. (Biology, 1st class Honours)	Gananoque, Ontario
*McGee, J. D. (Mathematics and Physics, Old System of Studies)	Wiarton, Ontario
MacKay, S. B. (General Science Course for Teachers, 2nd class Honours)	Hickson, Ontario
McWhinnie, M. Vivian (Mathematics, 2nd class Honours)	Williamstown, Ontario
McWilliam, Barbara M. (History, 2nd class Honours)	Picton, Ontario
Notman, R. R. (Biology, 1st class Honours)	St. Catharines, Ontario
Owens, S. (Mathematics, Honours B.A.)	Lindsay, Ontario
Park, C. A. (Psychology, 1st class Honours)	Chatham, Ontario
Richards, Irla M. (Biochemistry, 3rd class Honours)	Belleville, Ontario
Sherk, P. W. (Mathematics, 3rd class Honours)	Kitchener, Ontario
Sproule, W. D. (French, 2nd class Honours)	Kingston, Ontario
Tottenham, Dora E. (French, 2nd class Honours)	Kingston, Ontario
Wise, L. M. (Chemistry, 1st class Honours)	Belleville, Ontario

Degree of B.A. (Pass)

*Allison, Daisy (Sister N. Alexis)	Killaloe, Ontario
*Babcock, C. E.	Wilton, Ontario
Bannon, Doris M.	Proton Station, Ontario
Beacock, E. S.	Elmvale, Ontario
Beattie, Betty M.	Toronto, Ontario
Bell, Lillian M.	Sarnia, Ontario
Besley, J. L.	Schumacher, Ontario
*Biggar, Jean R.	Niagara Falls, Ontario
Billo, W. F.	Brantford, Ontario
Black, D. G.	Portsmouth, Ontario
Black, Margaret E. (Sister Mary Imelda)	Newmarket, Ontario
*Blackburn, W. W.	Hampton, Ontario
*Boyce, L. M. Ruth	Deseronto, Ontario
Breckon, Lorna I. E.	Norwood, Ontario

Burns, Margaret B.	Ottawa, Ontario
Byrne, Marguerite D.	Ottawa, Ontario
Calvert, Jean M. A.	Kingston, Ontario
Cameron, Jean P.	Kingston, Ontario
*Campbell, B. A.	Elgin, Ontario
Campbell, Donald A. M.	Ottawa, Ontario
Cantrell, G. A.	Milford, Ontario
*Carlson, Reta E.	Porcupine, Ontario
Carr, Elsie N.	Kamloops,
	British Columbia
Carson, Hilda C.	Kingston, Ontario
Chalmers, Lila H.	Kingston, Ontario
Champagne, B. J.	Outremont, Quebec
Chapman, T. L.	St. Catharines, Ontario
*Christie, C. A.	Mountain, Ontario
Clark, Margaret C.	Ottawa, Ontario
Clarkson, C. B.	Toronto, Ontario
*Claus, G. M. D.	Ottawa, Ontario
*Clements, Gladys A.	Sudbury, Ontario
*Clendinnen, M. Elizabeth	Ottawa, Ontario
Code, F. E. T.	Smiths Falls, Ontario
*Cohen, D.	Montreal, Quebec
*Connell, J. R.	Spencerville, Ontario
*Connor, Verna M.	Kemptville, Ontario
*Cordy, Ruth M.	Valleyfield, Quebec
*Crowe, C. F.	Regina, Saskatchewan
Crozier, S. F.	Westport, Ontario
Davis, N. C.	Kingston, Ontario
*Davis, R. K.	Pembroke, Ontario
*Dingle, S.	Wawota, Saskatchewan
*Dobie, G. E.	Port Arthur, Ontario
Dobie, J. C.	Port Arthur, Ontario
Dubrule, F. J.	Prescott, Ontario
*Earl, Jacqueline	Kingston, Ontario
Earle, F. W.	Victoria, British Columbia
Eaton, Evelyn M.	Outremont, Quebec
Ellis, W. H.	Lloydminster,
	Saskatchewan
*Farley, Vivian O.	Kingston, Ontario
*Feldman, Sadie E.	Timmins, Ontario
*Fluke, R. E.	Newburgh, Ontario
Garton, C. E.	Port Arthur, Ontario
*Gossack, L.	Montreal, Quebec
*Graham, Audrey F.	Kingston, Ontario
Hagerman, R. W. L.	Montreal, Quebec
*Hanson, E. J.	Thorhild, Alberta
*Harlowe, Dorothy H.	Toronto, Ontario
*Hollingworth, A. H.	Brockville, Ontario
*Holmes, Alice W.	Odessa, Ontario
*Holmes, E.	Winchester Springs,
	Ontario
Holmes, Ruth G.	Westboro, Ontario
Howard, G. Geraldine	Kingston, Ontario
Hunter, E. L.	Ottawa, Ontario
Ireland, J. L.	Smithfield, Ontario

*Kesterton, W. H.	Regina, Saskatchewan
King, E. A.	Brownsburg, Quebec
*Lane, N.	Toronto, Ontario
*Larocque, A. L.	Verdun, Quebec
Latimer, J. H.	Seeley's Bay, Ontario
Lawrence, J. R.	Fort William, Ont.
*Leitch, N. M.	Williamstown, Ontario
*Lewthwaite, G. A.	Outremont, Quebec
Lonsdale, Barbara E.	Fort William, Ont.
*Loken, R. H.	London, Ontario
Lougheed, K. H.	Ottawa, Ontario
*Mack, B. H. R.	Port Hope, Ontario
Maguire, J. A.	Windsor, Ontario
Martin, R. S.	Fort Frances, Ontario
Matheson, Catherine E. G.	Quebec City, Quebec
Mayhew, Marian E.	Calgary, Alberta
Mead, Kathleen L.	Ogema, Saskatchewan
Meanwell, Elizabeth B.	Walkerville, Ontario
Miller, F. A.	Ingersoll, Ontario
*Miller, H. J.	Mount Forest, Ontario
Minaker, Audrey O.	Picton, Ontario
*Minton, W. E.	Ottawa, Ontario
*Morton, Gwendolyn S.	Ottawa, Ontario
*Mumford, J. G.	Kitchener, Ontario
Munn, A. C.	Windham Centre, Ontario
*McCannell, R. T.	Port McNicoll, Ontario
McCuaig, Frances A.	Gananoque, Ont.
*MacEachern, A. J.	Peterborough, Ontario
MacEwen, Freda E.	Maxville, Ontario
McKay, D. B.	Mount Royal, Quebec
*McKibbon, J. A.	Merrickville, Ontario
*MacKillican, Eileen	Moose Creek, Ontario
MacMillan, Beatrice A.	Ottawa, Ontario
McNaught, R. J. B.	Russell, Ontario
Neilson, R. S.	Stratford, Ontario
Nesbitt, M. Jean	Ottawa, Ontario
O'Connell, M. P.	Victoria, British Columbia
O'Grady, Julie M. L.	Kingston, Ontario
Park, M. W.	Barrie, Ontario
*Patterson, Dorothy	Kingston, Ontario
Payne, P. W.	Ottawa, Ontario
Pearce, G. A.	Odessa, Ontario
Pedley, Lillian W.	Ottawa, Ontario
Pinsky, A.	Outremont, Quebec
Pitt, C. C. V.	Toronto, Ontario
Poaps, P. M.	Rock Island, Quebec
*Powell, W. W.	Kinburn, Ontario
Preston, W. R.	St. Catharines, Ontario
*Preuthun, Paula M. J.	Detroit, Michigan
*Redmond, Norma A.	Kingston, Ontario
Reid, Dorothy E.	Napanee, Ontario
Richardson, G. J.	Grand Valley, Ontario
Robertson, G. L.	Drumheller, Alberta
*Rosentzveig, L.	Montreal, Quebec
*Ruta, A.	Prince Rupert, British Columbia

*Schrader, Marjorie W.	Chippawa, Ontario
*Scott, J. W.	Egbert, Ontario
*Seccombe, Rita M.	Niagara Falls, Ontario
Shaw, J. E. V.	Niagara Falls, Ontario
*Slinn, Phyllis M.	Toronto, Ontario
*Smith, A. M.	Verdun, Quebec
Smith, Doris L.	Toronto, Ontario
Smith, Margaret E.	Sudbury, Ontario
Smith, Mora E.	Vancouver, British Columbia
Smyth, G. C.	Pembroke, Ontario
*Stevens, Rheta I.	Westport, Ontario
Stitt, C. Elinor	Ottawa, Ontario
*Storr, J. F.	Ottawa, Ontario
*Truscott, Helen G.	Kingston, Ontario
Tucker, Doris I.	Paisley, Ontario
Turnbull, Margaret G.	Ottawa, Ontario
*Vollmer, Margaret E.	St. Catharines, Ontario
*Wardle, Dorothy H.	Ottawa, Ontario
Watson, J. W.	Little Britain, Ontario
Wellwood, F. W. H., B.Com.	Ottawa, Ontario
Weston, C.	North Bay, Ontario
*Whiteman, Margaret B.	Picton, Ontario
*Wilcox, J. M.	Norwich, Ontario
Williams, M. E.	Havelock, Ontario
*Wims, F. J.	Kingston, Ontario
*Winter, E. H.	Navan, Ontario
Zadow, D. Eileen	Pembroke, Ontario
Zbar, Eva	Kingston, Ontario

Degree of M.Com.

Bell, D. S., B.Com. (Alberta)	Medicine Hat, Alberta
Williams, J. D., B.Com. (Manitoba)	Toronto, Ontario

Degree of B.Com.

*Brophy, D. A.	Glace Bay, Nova Scotia
Campbell, K. W.	Winnipeg, Manitoba
Carty, R. K.	Toronto, Ontario
*Casey, J. C.	Ottawa, Ontario
Cays, Carol, B.A.	Kingston, Ontario
Church, K. R.	Ottawa, Ontario
*Durfey, J. A.	Hamilton, Ontario
Godkin, D. J.	Kingston, Ontario
Gunby, L. C.	Ottawa, Ontario
Hamilton, J. M.	Winnipeg, Manitoba
Hesler, W. C.	Welland, Ontario
*Hollingworth, A. H.	Brockville, Ontario
Howse, B. A.	Timmins, Ontario
Lidington, G. A.	Ottawa, Ontario
Marshall, A. S.	Hamilton, Ontario
Mitchell, H. F.	Ottawa, Ontario
McDonnell, W.	Vancouver, British Columbia
Price, D. M.	Ottawa, Ontario

Saunders, A. J.	Kingston, Ontario
Smeltzer, D. Jean	Picton, Ontario
Timlin, Doris N.	Kingston, Ontario
*Tucker, F. G.	Toronto, Ontario
Whitehead, W. B. R.	Woodstock, Ontario
Winter, W. S.	Lindsay, Ontario
Wong, R. K.	Ottawa, Ontario

FELLOWSHIPS

The Arts Research Travelling Fellowship, \$500—divided between Kathleen E. Butcher, Paris, Ontario, and J. H. Houck, B.A., Brampton, Ontario.

The Arts Research Fellowship, \$500—M. W. Farrell, Ripley, Ontario.

The Reuben Wells Leonard Travelling Fellowship, \$245 — Audrey D. Freeman, Kingston, Ontario.

The Arts Research Fellowship, \$300—Audrey D. Freeman, Kingston, Ontario.

The Reuben Wells Leonard Resident Fellowships, \$500 each—

F. W. Gibson, Kingston, Ontario.

L. M. Wise, Belleville, Ontario.

Helen J. Brown, Saint John, New Brunswick.

Special awards for resident research work from the Reuben Wells Leonard fund—

\$300—R. S. Dick, Peterborough, Ontario.

\$100—J. L. Field, Ottawa, Ontario.

The Sir James Aikins Fellowship in Canadian History, \$400—J. L. Field, Ottawa, Ontario.

The Western Ontario Graduates Fellowship in History, \$320 — H. A. Black, Lindsay, Ontario.

The J. B. Tyrrell Scholarship in Economic Geology, \$240—J. M. Harrison, Winnipeg, Manitoba.

Special fellowship for use at the Summer School of International Relations—F. W. Gibson, Kingston, Ontario.

Medals and Special Prizes

Wilhelmina Gordon Foundation in English established by the Imperial Order, Daughters of the Empire, in appreciation of the work of Professor Wilhelmina Gordon, \$25 — R. S. Dick, Peterborough, Ontario.

Prince of Wales Prize (awarded to the graduating student in the Faculty of Arts who makes the highest standing)—Kathleen E. Butcher, Paris, Ontario.

Medal in French—Audrey D. Freeman, Kingston, Ontario.

Medal in English—R. S. Dick, Peterborough, Ontario.

Medal in Economics—M. W. Farrell, Ripley, Ontario.

Medal in History—F. W. Gibson, Kingston, Ontario.

Medal in Philosophy—Mary Jeffery, Paris, Ontario.

Medal in Mathematics—Kathleen E. Butcher, Paris, Ontario.

Medal in Biology—R. R. Notman, St. Catharines, Ontario.

Medal in Chemistry—L. M. Wise, Belleville, Ontario.

